XR-5700RDS/5701RDS

SERVICE MANUAL

AEP Model
XR-5700RDS
XR-5701RDS

UK Model
XR-5701RDS

Germany Model
XR-5700RDS

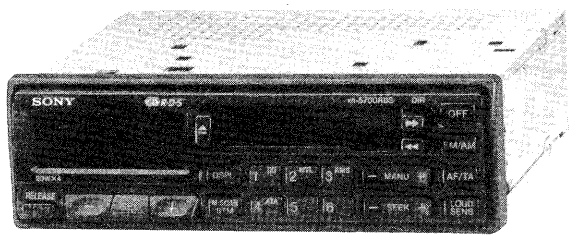


Photo: XR-5700RDS

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36AS-32

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 20 W × 4 (at 4 ohms)*
* Measured at 14.4 V

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 16,000 Hz
Signal-to-noise ratio

Cassette type	Dolby B	Dolby NR off
TYPE II, IV	66 dB	58 dB
TYPE I	63 dB	55 dB

Wow and flutter: 0.13% (WRMS)

Tuner section

System: Superheterodyne tuner computerized quartz-locked synthesizer system
Antenna terminal: External antenna connector

General

Tone controls: Bass ±8 dB at 100 Hz, Treble ±8 dB at 10 kHz
Loudness: +6 dB at 100 Hz, +6 dB at 10 kHz
Output lead: Power antenna relay control lead, Power amplifier control lead
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 186 × 57 × 170 mm (w/h/d) not incl. projecting parts and controls
Mounting dimensions: Approx. 182 × 53 × 154 mm (w/h/d) not incl. projecting parts and controls
Weight: Approx. 1.3 kg
Accessories supplied: Mounting hardware (1 set), Power connecting cord (1), Front panel case (1)

	FM	AM	LW (XR-5701RDS)
Tuning range	87.5 – 108.0 MHz	531 – 1,602 kHz	153 – 281 kHz
Antenna terminal	FM/AM external antenna connector		
Intermediate frequency	10.7 MHz	450 kHz	
Usable sensitivity	12 dBf (1.1 μV/75 ohms)	35 μV	70 μV
Selectivity	75 dB at 400 kHz	—	—
Signal-to-noise ratio	70 dB (monaural) 65 dB (stereo)	55 dB	—
Harmonic distortion at 1 kHz	0.3% (monaural) 0.5% (stereo)	0.3%	—
Stereo separation	35 dB	—	—
Frequency response	30 – 15,000 Hz		

Design and specifications subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

FM/AM CASSETTE CARSTEREO

SONY®

Features

Tuner section
- SSIR (Sony Super Interference Rejection) PLL synthesizer tuner for precise tuning
- BTM (Best Tuning Memory) function automatically selects and stores the stations with strong signals on the preset number buttons in order of frequency.
- Memory preset tuning allows you to store a total of 30 stations.
- RDS information can be received.
- Memory scan function scans preset stations each for five seconds in order.

Cassette deck section
- The auto-reverse function changes tape directions automatically.
- Dolby B NR* system reduces tape hiss noises during tape playback.
- AMS (Automatic Music Sensor) function for automatically locating the beginning of a track during tape playback

General
- Detachable-front panel enables you to take the front panel away with you when you leave your car.
- With the built-in amplifier, you can enjoy a 4-speaker system.
- Line output for connecting an optional power amplifier
- You can choose an illumination color between amber and green.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

TABLE OF CONTENTS

Section Title Page

- TEST mode 3

1. GENERAL 5

2. DISASSEMBLY 20

3. ADJUSTMENTS

3-1. Mechanical Adjustment 22
3-2. Electrical Adjustments 22

4. DIAGRAMS

4-1. Circuit Boards Location 27
4-2. Semiconductor Lead Layouts 27
4-3. Schematic Diagram 28
4-4. Printed Wiring Boards 33
4-5. Block Diagram 38
4-6. IC Description 41
4-7. LCD Unit LCD701 49

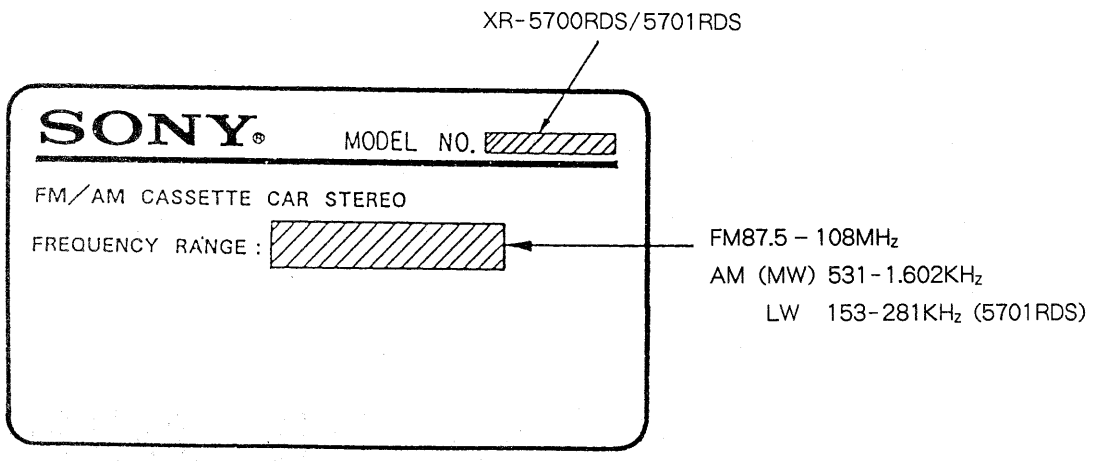
5. EXPLODED VIEWS

5-1. Chassis Assembly 1 50
5-2. Chassis Assembly 2 51
5-3. MD Assembly 1 52
5-4. MD Assembly 2 53

6. ELECTRICAL PARTS LIST 54

MODEL IDENTIFICATION

–Specification Label–



● Test mode

Setting the test mode

To set to the test mode, conduct the following key operations in the tuner mode. Display "ATA" is blinking in the test mode.

1) While pressing the [LEVEL +] key,
2) press the [DSPL] key and [SENS] key (or [SDK] with ARI) simultaneously.
3) Check that "ATA" is blinking.

Releasing the test mode

To release the test mode, conduct the one of the following procedures.

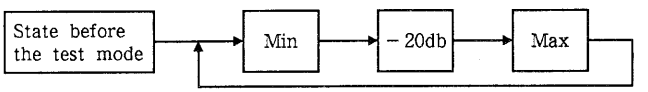
- OFF key
- Power ON reset (Vdd 0 V → 5 V)
- CE reset (ACC OFF → ON)

LCD display test (all LCDs are lit)

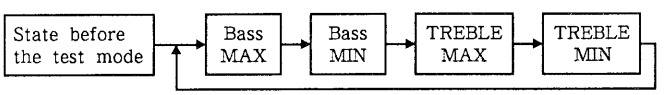
Turn all LCDs ON by pressing the [SELECT] and [M4] keys simultaneously. All LCDs are lit only when the two key are being pressed simultaneously.

Electrical volume test

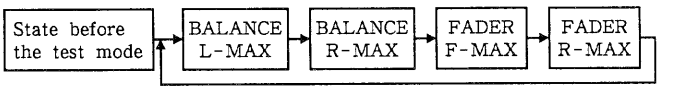
1. Volume selection [LEVEL +] / [LEVEL +]
   The volume level is selected by pressing the [LEVEL +] or [LEVEL +] key in the following order.



2. BASS/TREBLE selection [SELECT]
   BASS or TREBLE is selected by pressing the [SELECT] key in the following order. When BASS-MAX is selected, TREBLE, BALANCE and FADER is set to the center.



3. BALANCE/FADER selection [DISPLAY]
   BALANCE or FADER is selected by pressing the [DISPLAY] key in the following order. When BALANCE-L-MAX is selected, TREBLE, BASS and FADER are set to the center.



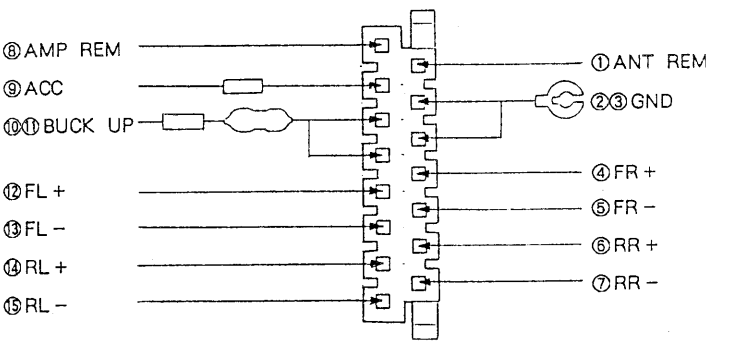
Tuner pack adjustment

1. SD signal display
   When the SD signal is active, "||" is displayed.

2. LOCAL terminal control (Pin No. 18)
   The output of the LOCAL terminal is independent on the SEEK operation. When "LCL" is displayed, the high signal is output from the LOCAL terminal.

3. IF COUNT terminal control (Pin No. 55)
   The output of the IF COUNT terminal is independent on the SEEK operation. When "LOUD" is displayed, the high signal is output from the IF COUNT terminal.

• CNJ914 Cord (with connector)



CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverand¢ren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverand¢ren.

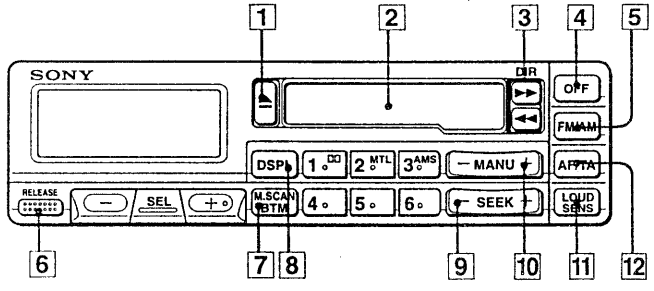
VARNING

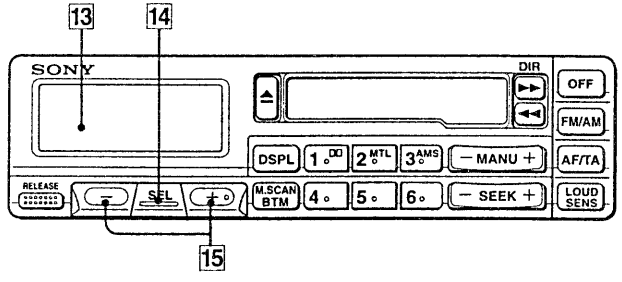
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

Location and Function of Controls





Refer to the pages in ● for details.

1 **⏏ (eject) button**
Press to stop tape playback and to eject the cassette.

2 **Cassette insertion door**

3 **◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons ❾**
During playback, press ◀◀ or ▶▶ for fast winding, or press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

4 **OFF (power off) button**
Press to turn off the unit.

5 **FM/AM (radio on/band select) button (XR-5700RDS) ⓫**
FM/MW/LW (radio on/band select) button (XR-5701RDS) ⓫

6 **RELEASE (front panel release) button ❼**

7 **M.SCAN (memory scan)/BTM (best tuning memory) button ⓭**
Press lightly to scan the memorized stations, or press for more than two seconds to memorize the clearest receiving stations.

8 **DSPL (display change) button**

9 **SEEK (automatic tuning) button ⓫**
Press the – side to search stations in lower frequencies and the + side to search stations in higher frequencies.

10 **MANU (manual) button ⓭**
Press to tune in the desired stations manually.

11 **LOUD (loudness)/SENS (sensitivity) button ⓬**
Press for more than two seconds to reinforce bass and treble especially when listening at a low volume level. To disengage the button, press it again for more than two seconds.

12 **AF (alternative frequency)/TA (traffic announcement) button ㉑**

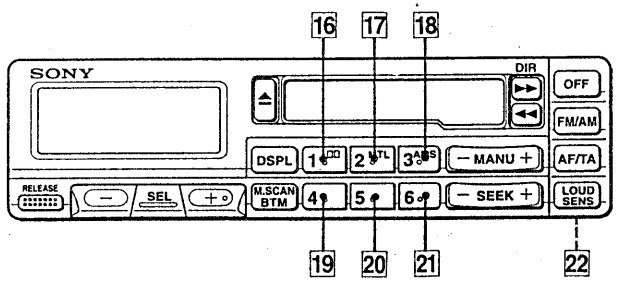
13 **Display window**

14 **SEL (control mode select) button**
Press to select the desired mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

15 **⊖ ⊕ (bass/treble/balance/fader/volume control) buttons**
These buttons normally function as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode will go back to the volume control mode.

Display window	Control mode	⊖ ⊕	
		Press ⊖	Press ⊕
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

This section is extracted from instruction manual.



	During tape playback	During radio reception
16	DD (Dolby noise reduction) button ⑩	Preset number buttons ⑯
17	MTL (metal/CrO_2) button ⑨	
18	AMS (automatic music sensor) button ⑩	
19	—	
20	—	
21	—	

22 **POWER SELECT switch (located on the bottom of the unit)**
See the description about the POWER SELECT switch in the Installation/Connections manual.

To change the illumination color
Press 1 while pressing the SEL button.

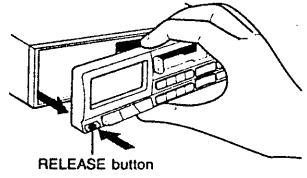
To mute the beep sound
Press 6 while pressing the SEL button.
To obtain the beep sound again, press these buttons once more.

Detaching and Attaching the Front Panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

Detaching the Front Panel

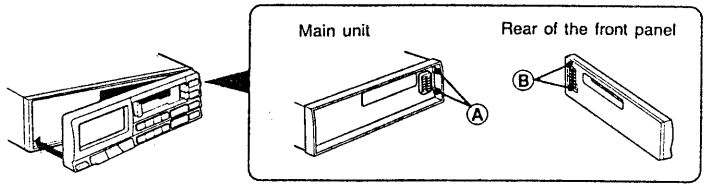
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button and detach the front panel by pulling it towards you as illustrated.



Note
Be sure not to drop the front panel when detaching it from the unit.

Attaching the Front Panel

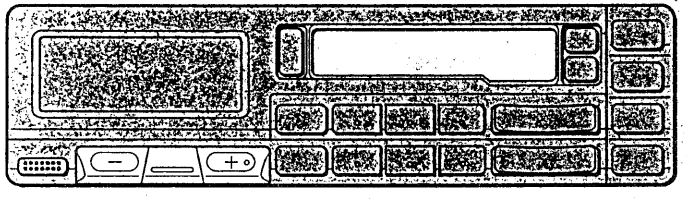
Apply the right hand side of the front panel to the unit by attaching the part Ⓑ of the front panel to the part Ⓐ of the unit as illustrated and push until it clicks.



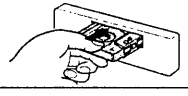
Notes
- Make sure that the front panel is right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel when attaching it to the unit.

Cassette deck operation

Tape Playback



1



Insert a cassette.
Playback starts automatically.

2

Adjust the volume.

Before turning off the unit:
Be sure to eject the tape to avoid tape damage.

To get the clock indication during tape playback

Press the DSPL button. Press again to go back to the previous indication.

Side of the cassette being played back

Indicator	Side
▶	The side facing upwards
◁	The side facing downwards

Other Operations

To listen to the other side of the cassette	Press ▶▶ and ◀◀ (simultaneously).
To wind the tape rapidly	See table below
To stop playback and listen to the radio	Press ⏏
To stop playback and turn off the unit	Press ⏏ and then press OFF.

Direction indicator*	To advance	To rewind
▶	Press ▶▶.	Press ◀◀.
◁	Press ◀◀.	Press ▶▶.

To resume playback, press ▶▶ or ◀◀ lightly so as not to depress it.

Listening to the CrO_2 (TYPE II) or Metal (TYPE IV) Tapes

Press 2 MTL. "MTL" indication appears on the display window.
To listen to the normal (TYPE I) tapes, press it again.

* " ◁▶ " indication will flash while fast-winding the tape.

Listening to Dolby NR-processed Tapes

Press 1 ○ᴰᴰ

Press to activate the Dolby B NR (Noise Reduction) system. Select the same Dolby NR system used for the recorded cassette. The Dolby NR system reduces tape hiss noise in low-level, high-frequency signals.

Locating the Beginning of a Track (AMS Function)

1 Press 3 AMS .
2 Press ◀◀ or ▶▶, referring to the following table.

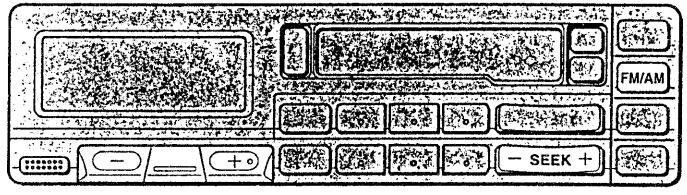
Indicator	Cassette side being played	Desired Track	
		Next track	Current track
▶	Side facing upwards	Press ▶▶.	Press ◀◀.
◁	Side facing downwards	Press ◀◀.	Press ▶▶.

The desired track may not be located if...
— there is a noise in the space between tracks.
— the space is less than four seconds long.
— the ◀◀ or ▶▶ button is pressed immediately before or after the desired track, or within the blank space.

Playback may begin in the middle of the track when AMS is activated, as the followings are treated as blanks:
— a long pause in the track
— a passage of low frequencies or very low volume
— gradual increase or decrease of volume, as in some classical music.

Radio reception

Automatic Tuning



1 FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2, FM3, AM1 or AM2 (MW/LW for XR-5701RDS).

The tuner turns on at the same time.

2 – SEEK +

Press to start scanning.

–: For lower frequency stations
+: For higher frequency stations

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

3

Adjust the volume.

Note
FM has three bands (FM1, FM2 and FM3). Three bands cover the same frequency range. To change the band, press FM/AM (FM MW/LW for XR-5701RDS).

Other Operations

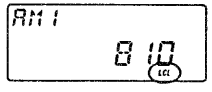
To stop the radio and start tape playback

To stop the radio and turn off the unit Press OFF.

When there are too many stations and the scanning stops too frequently during automatic tuning

Press LOUD SENS* once.

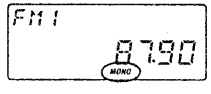
Only the stations with relatively strong signals can be tuned in.



When the FM Stereo Program is Too Weak and Noisy

Press LOUD SENS* twice.

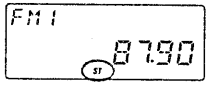
The noise will be reduced. The sound will be monaural instead.



* Each time you press the button, the display mode changes as follows:

LCL(local) → MONO → normal

When an FM stereo program of sufficient signal strength is tuned in



The program is automatically received in stereo.

To get the clock indication during radio reception

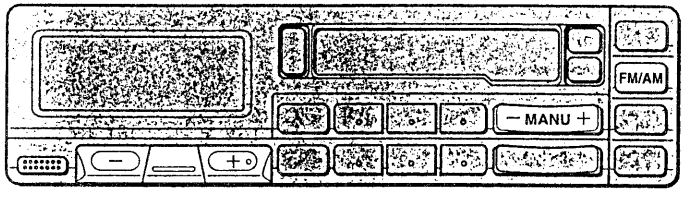
Press the DSPL button. Each time you press the button, the display mode changes as follows:

Frequency display mode → Clock display mode

Radio reception

Manual Tuning

Use this method when you know the frequency of the desired station, or when the desired station is too weak to be tuned in by the automatic tuning.



1 FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2, FM3, AM1 or AM2 (MW/LW for XR-5701RDS).

The tuner turns on at the same time.

2 – MANU +

Press to select the desired station.

–: For lower frequency stations
+: For higher frequency stations

To change the frequency rapidly, keep the button pressed.

3

Adjust the volume.

Warning

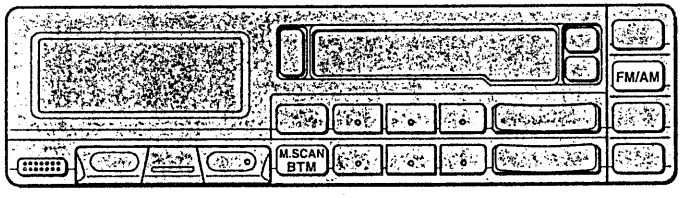
While driving, keep your eyes on the road and use the automatic tuning or memory preset tuning!

Radio reception

Memory Preset Tuning

Memorizing the Stations Automatically (BTM Function)

This unit can memorize up to 6 stations on each band, one on each preset number.



1 FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2, FM3, AM1 or AM2 (MW/LW for XR-5701RDS).

The tuner turns on at the same time.

2 M.SCAN BTM

Keep the BTM button pressed for more than two seconds.

Checking What is Being Broadcasted on the Memorized Stations (Memory Scan Function)

Press M.SCAN BTM lightly.

The tuner will receive in order, all the memorized stations for five seconds each. To cancel this function, press the button lightly once more.

Note

There may be cases where even the memorized stations cannot be received due to weak signals in the vicinity of your car.

The BTM function—how this function operates

This function starts by scanning stations from the lowest frequency of the currently tuned in band. When a station is tuned in, it will be stored in the memory on the preset number button whose number is indicated on the display window. If there is no preset number indicated, it will be stored in the memory on the preset number button 1 onward. It continues to store the stations in the memory until all the preset number buttons are occupied.

For example, if the FM1 band was selected, it will continue until the preset number button 6 on the FM3 band is occupied.

When all the preset number buttons are occupied with the memories before the highest receivable frequency is scanned, the unit will start scanning higher frequencies from where it was left off.

This is to check if there are any more stations with clearer receptions than the ones already stored in the memory.

If a station with clearer reception is found, the unit will store it in the memory in place of a station with an inferior reception.

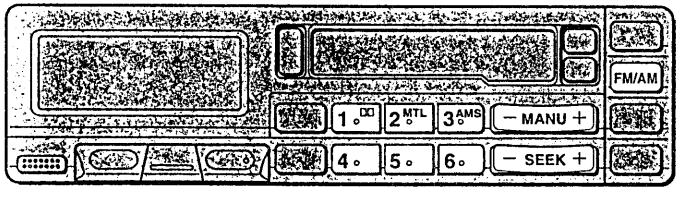
Lastly, it rearranges all the stations in the order of frequency from the lowest and stores them in the memory. The whole operation is now completed. The stations with clearer receptions are stored in the memory on the preset number buttons in the order of frequency.

Notes

- There may be a situation where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such a case, the BTM operation may stop without all the buttons being stored with a memory.
- If you start the BTM operation from the FM1 band, it will continue to store stations in the memory on the FM2 and FM3 band. Care must be taken if you wish to keep the stored stations on the FM2 or FM3 band.
- If you start the BTM operation from the FM3 band, it will stop when all the memories on the FM3 band are occupied. It will not continue to the FM1 band.

Memorizing Only the Desired Stations Manually

You can memorize up to 6 stations on each band in order of your choice.



Example: To memorize on the preset number button 1

1

FM/AM (XR-5700RDS) FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2, FM3, AM1 or AM2 (MW/LW for XR-5701RDS).

The tuner turns on at the same time.

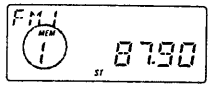
2

– MANU + or – SEEK +

Tune in a desired station using the automatic or manual tuning.

3

1 ○ DD



Press for more than two seconds.

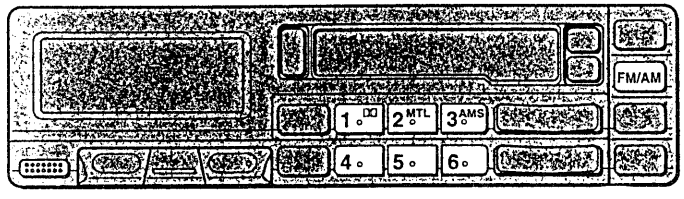
The number of the pressed preset number button will be displayed. "MEM" indication appears to show that the station has been memorized. ("MEM" indication will disappear in a few seconds.)

Repeat these steps for each preset number button.

Important

Every preset number button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

Receiving the Preset Station



1

FM/AM (XR-5700RDS) FM MW/LW (XR-5701RDS)

Press to select the desired band.

2

1 ○ DD — 6 ○

Press the desired preset number button lightly.

Notes

- If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, press the preset number button lightly.
- There may be cases where even the memorized stations cannot be received due to weak signals in the vicinity of your car.

RDS reception

Overview of the RDS Function

What is RDS?

The RDS (Radio Data System) is a radio digital information system developed and introduced in 1987 by the EBU (European Broadcasting Union). Using the 57 kHz sub-carrier of FM broadcasting, the RDS lets you to receive a variety of information such as station names, clock display and traffic announcement. It also offers useful functions such as automatic re-tuning of the best available signal carrying the chosen program.

The RDS digital data includes the followings:

PI	Program Identification
PS	Program Service Name
AF	List of Alternative Frequencies
TP	Traffic Program
TA	Traffic Announcement
PTY	Program Type
CT	Clock-time

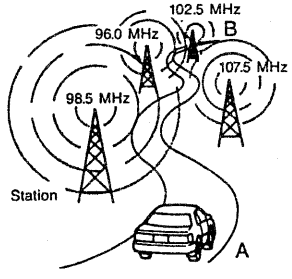
The following functions are available with this unit using the RDS data. Refer to the pages ● for operation.

Station Service Name Display (page ●)

This function displays the station name being tuned in on the display window.

Automatic Re-tuning—AF function (page ●)

This function re-tunes in a stronger signal station in the same broadcasting network automatically using the PI and AF data.
The illustration shows an example: four stations of the same broadcasting network and a driver passes through from the point A to B.
As the driver goes, the reception frequency of the station in the network changes from 98.5 MHz through 102.5 MHz.
By using the AF function, the driver can keep listening to the program in the same broadcasting network without tuning operation while driving from the point A to B.



Traffic Announcement Reception—TA function (page ●)

This function searches and stands by for a traffic announcement station using the TP and TA data.
By this function, the unit automatically scans the station and changes its mode to the traffic announcement reception when the broadcast starts while listening to tape playback.

Preset Volume Level Setting (page ●)

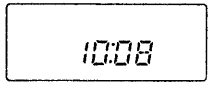
When the traffic announcement starts, it will be heard at the preset volume level even if the volume control of the front panel has been turned down. The preset volume level can be set in the following manner:

1 **Adjust the volume to the desired level with the ◁ or ▷ button while "TA" indication is flashing.**

2 **Keep the M. SCAN/BTM button pressed for more than two seconds.**
A beep tone will be heard and the volume level will be memorized. (The indication on the display window will go back to the previous one after three seconds.)

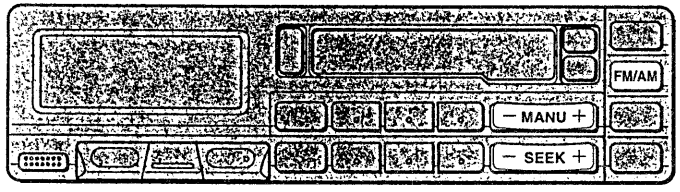
Clock-time Display (page ●)

This function displays the clock time using the CT data.



RDS reception

Station Name Display



1

FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2 or FM3.

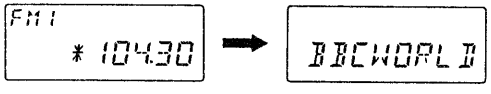
The tuner turns on at the same time.

2

– MANU + or – SEEK +

Tune in a desired station
using the automatic or manual tuning.

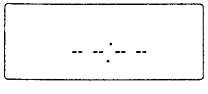
If the received station is transmitting the RDS data, " ♯ " is displayed. After a few seconds, station name will be displayed.



Notes

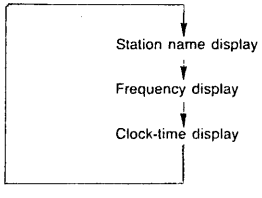
- RDS data can be received only on the FM band. It cannot be received on the AM (MW/LW) band.
- The RDS functions of this unit cannot be used if the received FM station is not transmitting the RDS data and may not work properly in area where the RDS transmissions are at an experimental stage.

If the RDS station is not transmitting the CT data, display shows as follows instead of clock time:



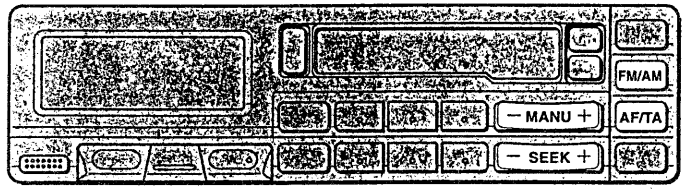
To change the display to frequency or clock time

Press the DSPL button.
Each time you press the button, the display mode changes as follows:



RDS reception

Automatic Re-tuning (AF Function)



1

FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2 or FM3.

The tuner turns on at the same time.

2

– MANU + or – SEEK +

Tune in a desired RDS station
using the automatic or manual tuning.

3

AF/TA

Press to get "AF" indication on the display window.

How the AF function works?

When the signal level of the tuned RDS station falls below a certain point, the unit begins to scan an alternative stronger frequency station in the same network from the AF data (List of Alternative Frequency). Scanning continues until a station with a satisfactory signal level is found.

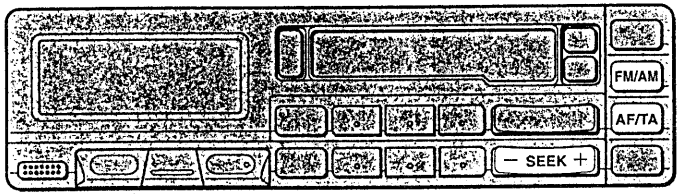
Notes

- If the tuned RDS station is not transmitting the AF data, this function does not work.
- If you press the AF/TA button while the AM band is being selected, the FM1 band is forcibly selected.

RDS reception

Traffic Announcement Reception (TA Function)

Receiving a Traffic Announcement Station



1 FM/AM (XR-5700RDS) / FM MW/LW (XR-5701RDS)

Press to select the desired band, FM1, FM2 or FM3.

The tuner turns on at the same time.

2 AF/TA

Press to start scanning a traffic announcement station.

"TA" indication appears on the display window. When a RDS station transmitting the TP data is found, scanning stops and "TP" indication is displayed on the display window.

"TA" indication flashes when the traffic announcement broadcast is on the air. It stops flashing when the broadcast is over.

To scan another traffic announcement, press the SEEK button while "TA" indication is displayed.

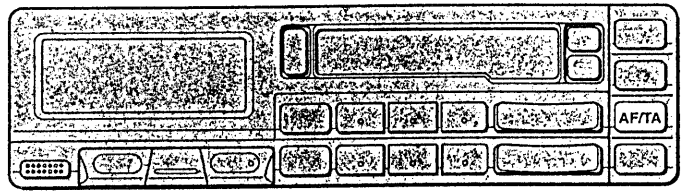
Traffic announcement is heard at the preset volume level

When the traffic announcement broadcast starts, it will be heard at the preset volume level even if the volume control on the front panel has been turned down. Refer to page ⓲ about setting the volume level.

Notes

- Do not press the AF/TA button when the unit is used in area where the traffic announcement broadcast service is not available. If you press it, the unit keeps scanning the traffic announcement station and any other station cannot be tuned in.
- If the AF/TA button is pressed while "TA" indication is being displayed, both the AF and TA function can be activated.
- If you press the AF/TA button while the AM band is being selected, the FM1 band is forcibly selected to scan a traffic announcement station.

Standing by for the Traffic Announcement while Listening to Tape Playback



Press the AF/TA button while playing back a tape.
"TA" indication appears on the display window.
Playback continues while the unit scans a traffic announcement station internally.

When a station is found
"TP" indication appears on the display window.

↓

When a traffic announcement broadcast starts
"TA" indication starts flashing. Tape playback stops and the traffic announcement will be heard.

↓

When the broadcast is over
Tape playback resumes from the point it has been suspended.

To cancel the stand-by mode

Press the AF/TA button.

To change the display to the frequency or station name display during tape playback

Press the DSPL button. While the frequency is being displayed, SEEK, MANU and the preset number buttons function in the same way as in ordinary radio reception.

PTY (alarm) data reception

In case of emergency, or when some events which may cause danger of a general nature occur, RDS stations transmit the PTY data information to warn drivers that there are some dangerous situation around the drivers. The data includes character information on the display and an interruption signal to forcibly turn on the radio. This data can be received while the AF or TA function is being activated. If the unit receives the PTY data from the RDS station during tape playback, "AF" indication begins flashing and the playback stops, and the radio is turned on forcibly to receive the emergency announcement of the station.

Maintenance

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

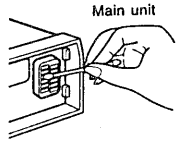
Cleaning the Head and the Tape Path

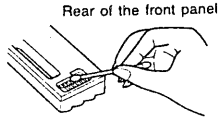
Prolonged use may contaminate the tape head and the tape path. Contamination may cause sound drop-out in playback. Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

Cleaning the Connector

The unit may not function properly if the connectors between the unit and the front panel are contaminated with dirt. In order to prevent this from happening, detach the front panel by pressing the RELEASE button and clean the connectors from time to time.

Clean the connectors with a cotton swab as illustrated. Be sure to clean them with a horizontal motion. Never clean them vertically as this could damage the connecting points.





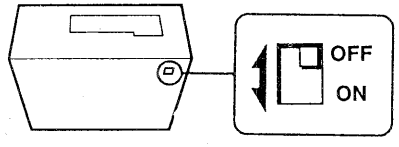
Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

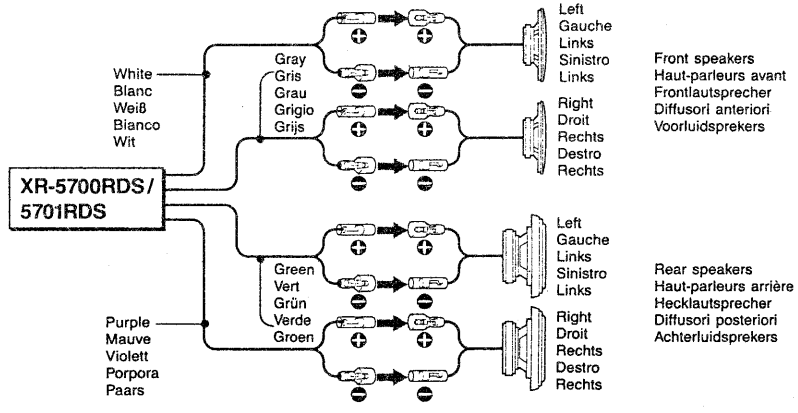
POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key.**
To avoid this battery wear when using the unit in such a car, **set the POWER SELECT switch on the bottom to the OFF position.** The illumination is reset to stay off while the unit is not being played.



Change the position with a ball-point pen or similar objects.
Changer la position avec un stylo à bille ou un objet similaire.
Den Schalter mit einem Kugelschreiber o.ä. umstellen.
Usare una penna a sfera o un oggetto simile per selezionare la posizione dell'interruttore.
Verstel de schakelaar met een balpen of een dergelijk voorwerp.

Speaker Connection
Connexion des haut-parleurs
Lautsprecheranschluß
Collegamento dei diffusori
Luidspreker-aansluitingen



Notes on speaker connection

- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Remarques sur la connexion des haut-parleurs

- Utiliser des haut-parleurs avec une impédance de 4 à 8 ohms et qui peuvent supporter l'alimentation fournie sinon ils risqueraient d'être endommagés.
- Ne pas connecter les bornes du système de haut-parleur au châssis de la voiture et ne pas raccorder les bornes du haut-parleur droit aux bornes du haut-parleur gauche.
- Ne pas essayer de connecter les haut-parleurs en parallèle.

Hinweise zum Lautsprecheranschluß

- Verwenden Sie die Lautsprecher mit einer Impedanz von 4 bis 8 Ohm und ausreichender Belastbarkeit, um eine Beschädigung der Lautsprecher zu vermeiden.
- Verbinden Sie keine Lautsprecheranschlüsse mit dem Fahrzeugchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit dem des linken Lautsprechers.
- Schließen Sie keine Lautsprecher parallel an.

Note sul collegamento dei diffusori

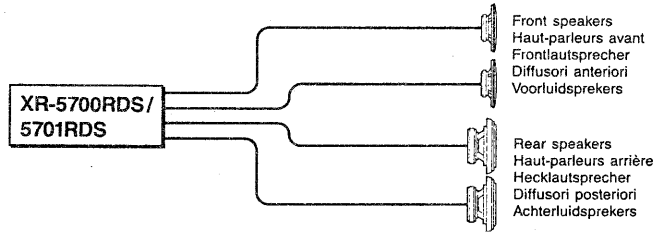
- Usare diffusori con impedenza da 4 a 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori possono rimanere danneggiati.
- Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare quelli del diffusore destro con quelli del diffusore sinistro.
- Non tentare di collegare i diffusori in parallelo.

Opmerkingen betreffende het aansluiten van de luidsprekers

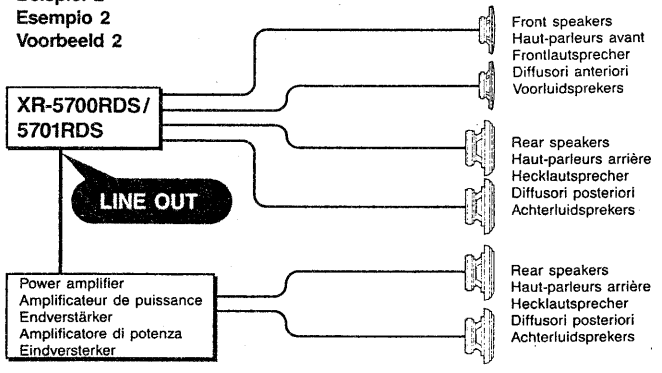
- Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.
- Probeer niet de luidsprekers parallel aan te sluiten.

Connection Diagram
Schéma de connexions
Anschlußdiagramm
Schema di collegamento
Aansluitschema

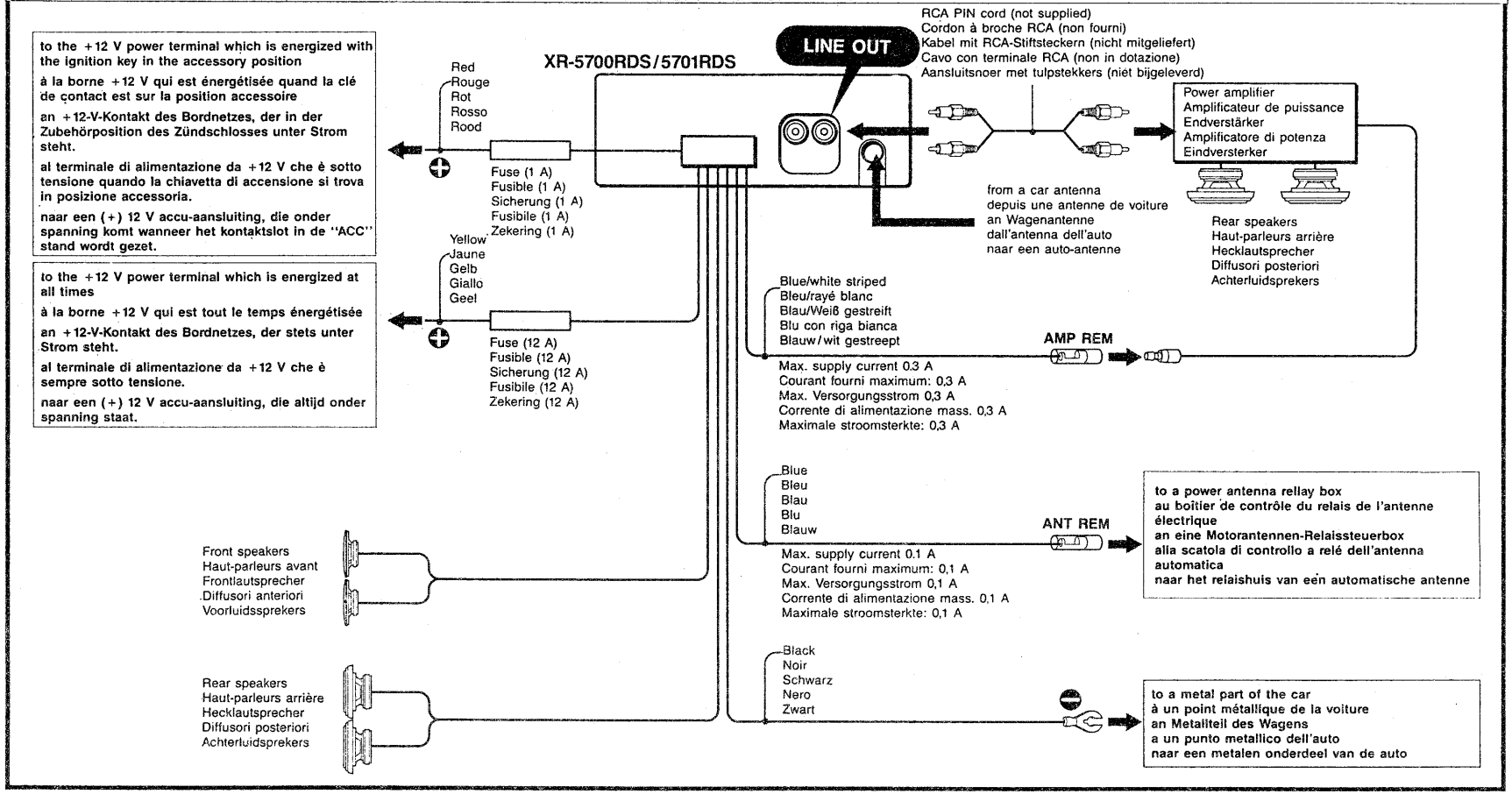
Example 1
Exemple 1
Beispiel 1
Esempio 1
Voorbeeld 1



Example 2
Exemple 2
Beispiel 2
Esempio 2
Voorbeeld 2



Connections of Example 2
Connexions de l'exemple 2
Collegamenti per l'esempio 2
Aansluitingen van voorbeeld 2
Anschluß Beispiel 2


to the +12 V power terminal which is energized with the ignition key in the accessory position
à la borne +12 V qui est énergétisée quand la clé de contact est sur la position accessoire
an +12-V-Kontakt des Bordnetzes, der in der Zubehörposition des Zündschlosses unter Strom steht.
al terminale di alimentazione da +12 V che è sotto tensione quando la chiavetta di accensione si trova in posizione accessoria.
naar een (+) 12 V accu-aansluiting, die onder spanning komt wanneer het kontaktslot in de "ACC" stand wordt gezet.
to the +12 V power terminal which is energized at all times
à la borne +12 V qui est tout le temps énergétisée
an +12-V-Kontakt des Bordnetzes, der stets unter Strom steht.
al terminale di alimentazione da +12 V che è sempre sotto tensione.
naar een (+) 12 V accu-aansluiting, die altijd onder spanning staat.
XR-5700RDS/5701RDS
LINE OUT
RCA PIN cord (not supplied)
Cordon à broche RCA (non fourni)
Kabel mit RCA-Stiftsteckern (nicht mitgeliefert)
Cavo con terminale RCA (non in dotazione)
Aansluitsnoer met tulpstekkers (niet bijgeleverd)
Power amplifier
Amplificateur de puissance
Endverstärker
Amplificatore di potenza
Eindversterker
Red
Rouge
Rot
Rosso
Rood
Fuse (1 A)
Fusible (1 A)
Sicherung (1 A)
Fusibile (1 A)
Zekering (1 A)
Yellow
Jaune
Gelb
Giallo
Geel
Fuse (12 A)
Fusible (12 A)
Sicherung (12 A)
Fusibile (12 A)
Zekering (12 A)
from a car antenna
depuis une antenne de voiture
an Wagenantenne
dall'antenna dell'auto
naar een auto-antenne
Rear speakers
Haut-parleurs arrière
Hecklautsprecher
Diffusori posteriori
Achterluidsprekers
Blue/white striped
Bleu/rayé blanc
Blau/Weiß gestreift
Blu con riga bianca
Blauw/wit gestreept
AMP REM
Max. supply current 0.3 A
Courant fourni maximum: 0,3 A
Max. Versorgungsstrom 0,3 A
Corrente di alimentazione mass. 0,3 A
Maximale stroomsterkte: 0,3 A
Blue
Bleu
Blau
Blu
Blauw
ANT REM
Max. supply current 0.1 A
Courant fourni maximum: 0,1 A
Max. Versorgungsstrom 0,1 A
Corrente di alimentazione mass. 0,1 A
Maximale stroomsterkte: 0,1 A
to a power antenna rellay box
au boîtier de contrôle du relais de l'antenne électrique
an eine Motorantennen-Relaissteuerbox
alla scatola di controllo a relé dell'antenna automatica
naar het relaishuis van een automatische antenne
Front speakers
Haut-parleurs avant
Frontlautsprecher
Diffusori anteriori
Voorluidssprekers
Rear speakers
Haut-parleurs arrière
Hecklautsprecher
Diffusori posteriori
Achterluidsprekers
Black
Noir
Schwarz
Nero
Zwart
to a metal part of the car
à un point métallique de la voiture
an Metallteil des Wagens
a un punto metallico dell'auto
naar een metalen onderdeel van de auto

Note on the control leads

A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to its instructions manual.

Remarque sur les fils de contrôle

Une antenne électrique sans boîtier de relais ne peut pas être utilisé avec cet appareil. Pour plus de détails au sujet de l'antenne électrique, consulter son mode d'emploi.

Hinweise zu den steuerleitungen

An das Gerät können nur Motorantennen mit Relaisbox angeschlossen werden. Genaueres zu Motorantennen entnehmen Sie der bei ihr mitgelieferten Anleitung.

Note sui cavi di controllo

Non è possibile usare un'antenna automatica senza scatola a relè con questo apparecchio. Per dettagli sull'antenna automatica, fare riferimento al suo manuale di istruzioni.

Opmerking betreffende de bedieningsaansluitingen

Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken. Zie de gebruiksaanwijzing van de automatische antenne voor nadere bijzonderheden over de antenne.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt, or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to remove the front panel before installing the unit.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

Installation

Précautions

- Choisir soigneusement l'emplacement du montage, de manière que l'appareil ne gêne nullement les mouvements du conducteur.
- Eviter d'installer l'appareil là où il serait soumis à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, à de la poussière, de la saleté ou des vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.
- Avant d'installer l'appareil, veiller à enlever le panneau avant.

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Installation

Vorsichtsmaßnahmen

- Wählen Sie den Einbauort sorgfältig so aus, daß das Gerät die Bedienung des Fahrzeugs nicht behindert.
- Achten Sie darauf, daß das Gerät keiner Wärmeeinstrahlung (Sonnenlicht, Warmluft von Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets nur die mitgelieferten Montageteile.
- Nehmen Sie vor der Installation des Geräts die Frontplatte ab.

Einstellung des Montagewinkels
Ein Montagewinkel von weniger als 20° kann eingestellt werden.

Installazione

Precauzioni

- Scegliere con attenzione il luogo di montaggio in modo che l'apparecchio non interferisca con le normali operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come da esposizione alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Assicurarsi di rimuovere il pannello anteriore prima di installare l'apparecchio.

Regolazione dell'angolo di montaggio
Regolare l'angolo di montaggio in modo che sia inferiore a 20°.

Montage

Opgelet

- Kies de plaats voor inbouw zorgvuldig en houd er rekening mee dat het apparaat de bestuurder van de auto vooral niet in de weg mag zitten.
- Monteer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen zoals van direkt zonlicht of de warme luchtstroom van de autoverwarming. Zorg dat het niet blootstaat aan sterke trillingen of in kontakt komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.
- Vergeet niet om, voordat u met de installatie begint, eerst het voorpaneel van het apparaat te verwijderen.

Inbouwhoek
Monteer het apparaat in een stand die niet meer dan 20° afwijkt van het horizontale vlak.

Mounting Example

Installation in the dashboard

Exemple de montage

Encastrement dans le tableau de bord

Montagebeispiel

Installation im Armaturenbrett

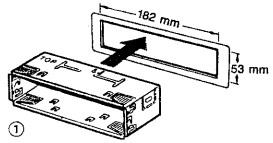
Esempio di montaggio

Installazione nel cruscotto

Montage-voorbeeld

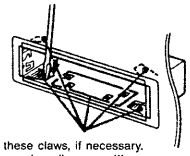
Inbouw in het dashboard

1



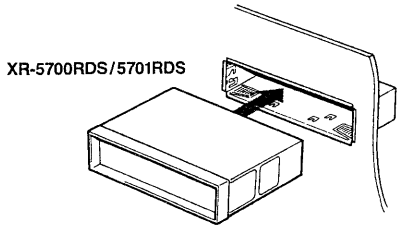
with the TOP marking up
côté portant l'inscription TOP dirigé vers le haut
mit der TOP-Markierung nach oben weisend
con la scritta TOP rivolta verso l'alto
de kant met het woord "TOP" naar boven gericht

2



Bend these claws, if necessary.
Si nécessaire, plier ces griffes.
Falls erforderlich, die Klauen hochbiegen.
Piegare questi morsetti, se necessario.
Indien nodig kunt u deze lipjes ombuigen.

3



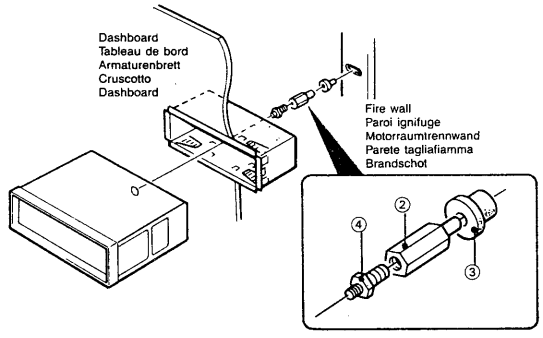
To Support the Unit

Pour installer l'appareil

Zum Stützen des Geräts

Per installare l'apparecchio

Ondersteunen van het apparaat



How to Detach and Attach the Front Panel

To detach
Press the RELEASE button to open up the front panel, then pull ti out.

To attach
Align the part Ⓐ and Ⓑ , and push the front panel until it is fixed.

Dépose et pose du panneau avant

Dépose
Appuyer sur la touche RELEASE avant d'ouvrir le panneau avant, puis le tirer vers vous.

Pose
Aligner les parties Ⓐ et Ⓑ et pousser le panneau avant jusqu'à enclenchement.

Abnehmen und Anbringen der Frontplatte

Zum Abnehmen
Drücken Sie die RELEASE-Taste zum Öffnen der Frontplatte, und ziehen Sie sie heraus.

Zum Anbringen
Rchten Sie die Teile Ⓐ und Ⓑ aufeinander aus, und drücken Sie die Frontplatte fest.

Come staccare e fissare il pannello anteriore

Per staccarlo
Premere il tasto RELEASE per aprire il pannello anteriore, quindi estrarlo.

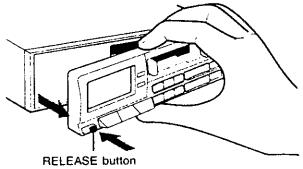
Per fissarlo
Allineare la parte Ⓐ e Ⓑ , quindi spingere il pannello anteriore fino a che sia fissato.

Aanbrengen en verwijderen van het voorpaneel

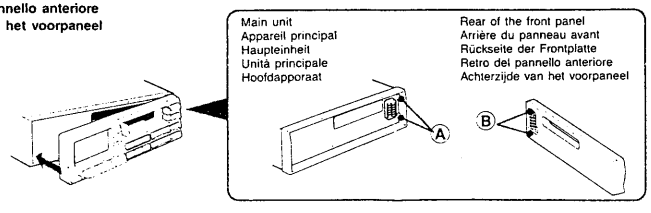
Verwijderen
Druk op de RELEASE toets zodat het voorpaneel ontgrendeld wordt en verwijder dit vervolgens van het apparaat.

Aanbrengen
Zorg dat punt Ⓐ en punt Ⓑ tegenover elkaar liggen en druk het voorpaneel dan aan, totdat dit vastklikt.

To detach the front panel
Dépose du panneau avant
Zum Abnehmen der Frontplatte
Per staccare il pannello anteriore
Verwijderen van het voorpaneel



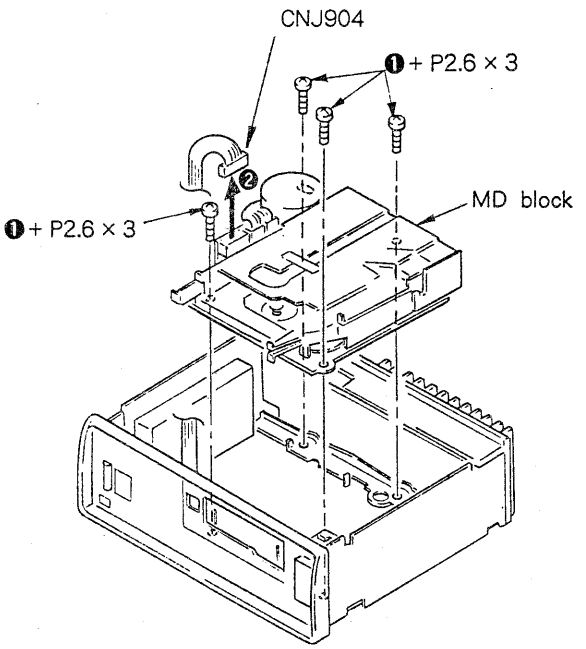
To attach the front panel
Pose du panneau avant
Zum Anbringen der Frontplatte
Per fissare il pannello anteriore
Aanbrengen van het voorpaneel



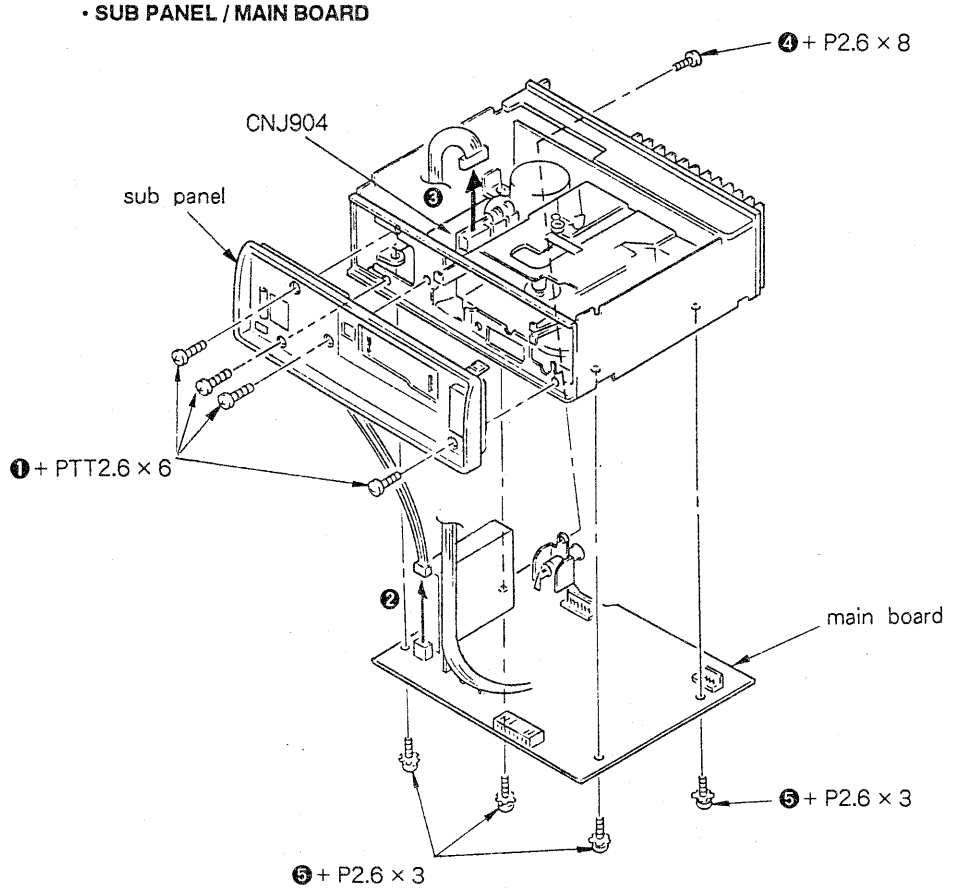
SECTION 2
DISASSEMBLY

NOTE : Follow the disassembly procedure in the numerical order given.

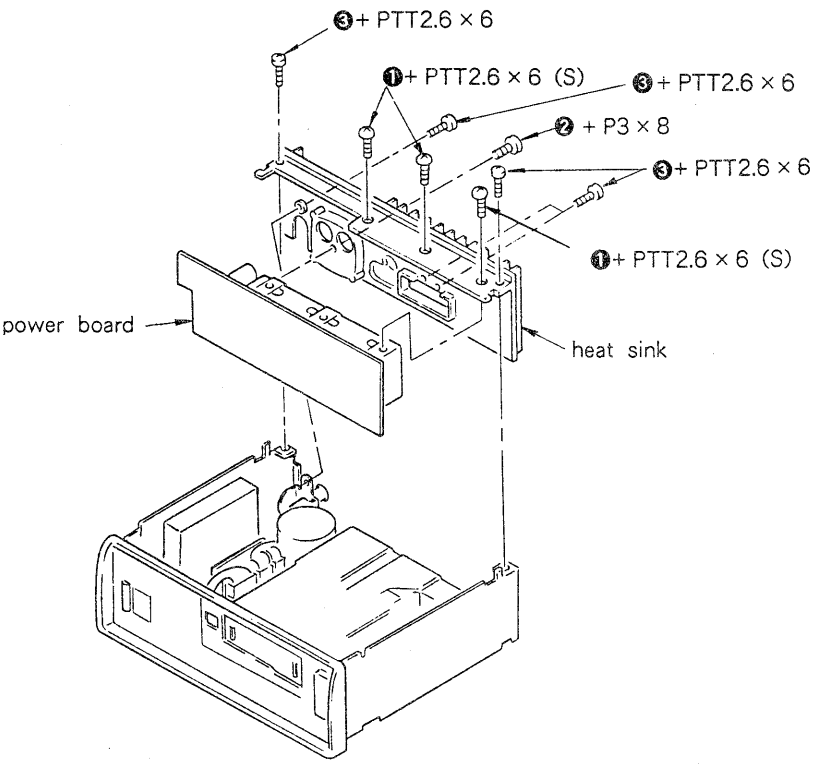
• **MD BLOCK**



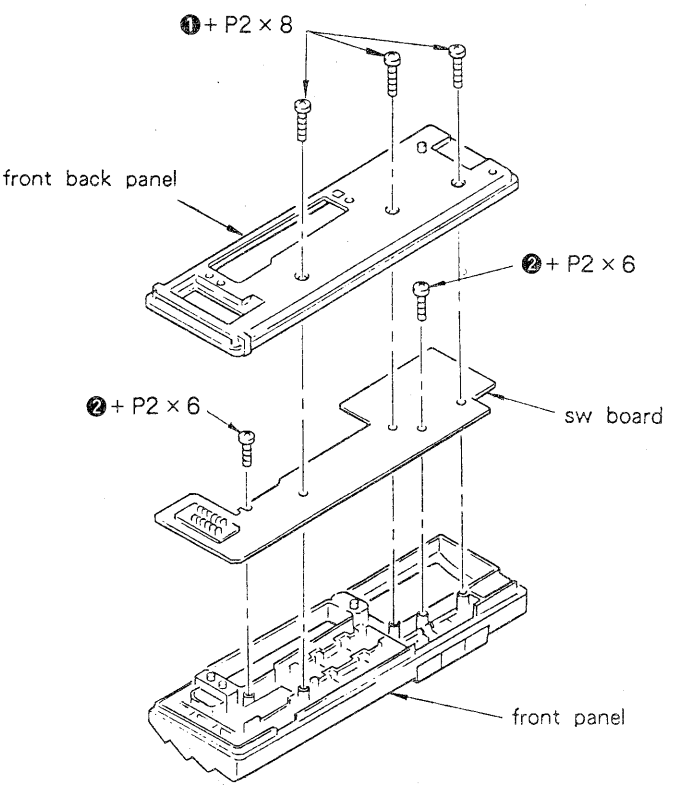
• **SUB PANEL / MAIN BOARD**



• **POWER BOARD**



• **SW BOARD (XR-5700FP/5701FP)**



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

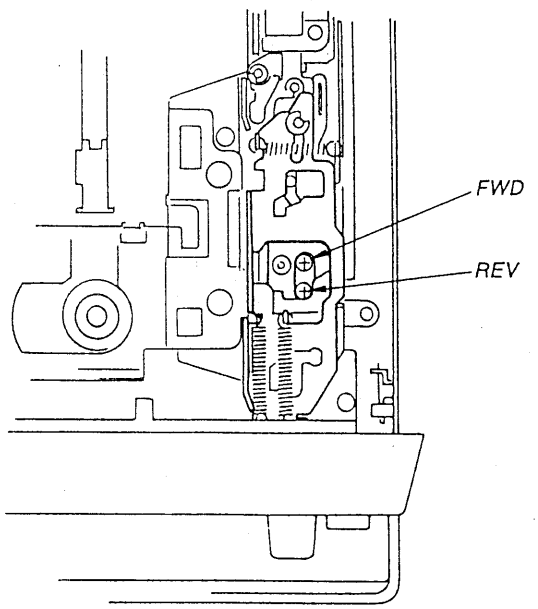
1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD / REV	CQ-102C / RC	25 to 55 g • cm (0.35 to 0.77 oz • inch)
FF,REW	CQ-201B	50 to 150 g • cm (0.7 to 2.1 oz • inch)
Back tension	CQ-102C / RC	1.5 to 4 g • cm or less (0.02 to 0.05 oz•inch or less)

Adjustment Location:

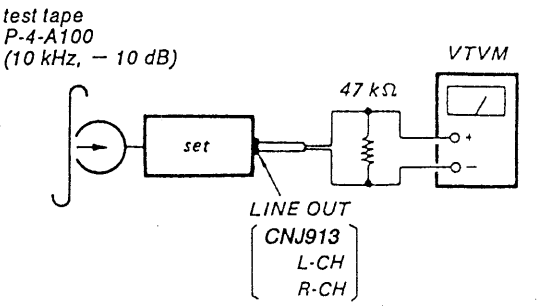


3-2. ELECTRICAL ADJUSTMENTS DECK SECTION

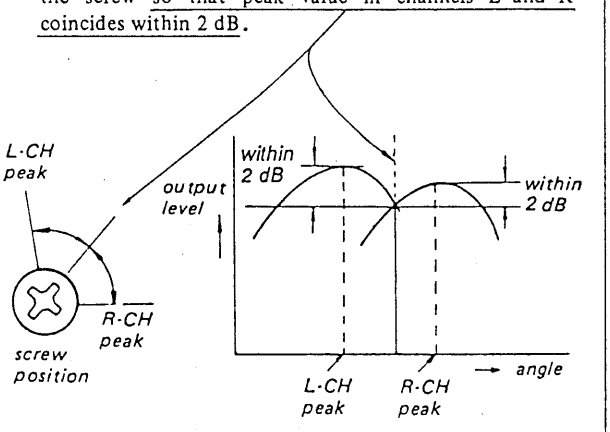
PB Head Vertical Adjustment

Proceudre:

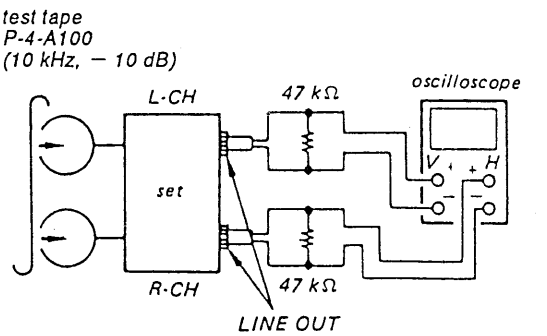
1. Put the set into the FWD PB mode.

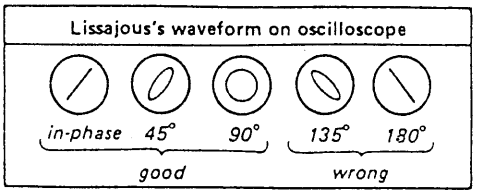


2. Turn the screw and check the output peak value. Adjust the screw so that peak value in channels L and R coincides within 2 dB.



3. Check the phase in the PB mode.



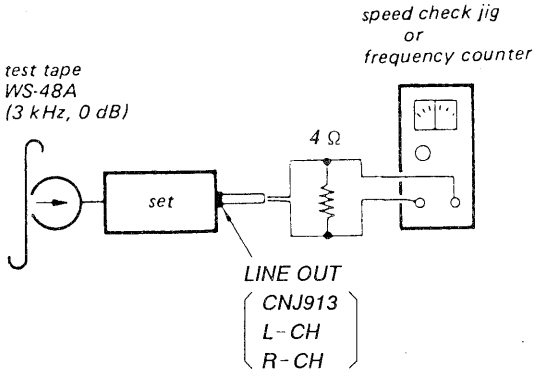


4. Repeat the above adjustment for the REV PB mode.
5. Check that output level difference between FWD PB mode and REV PB mode is within 4 dB.

Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

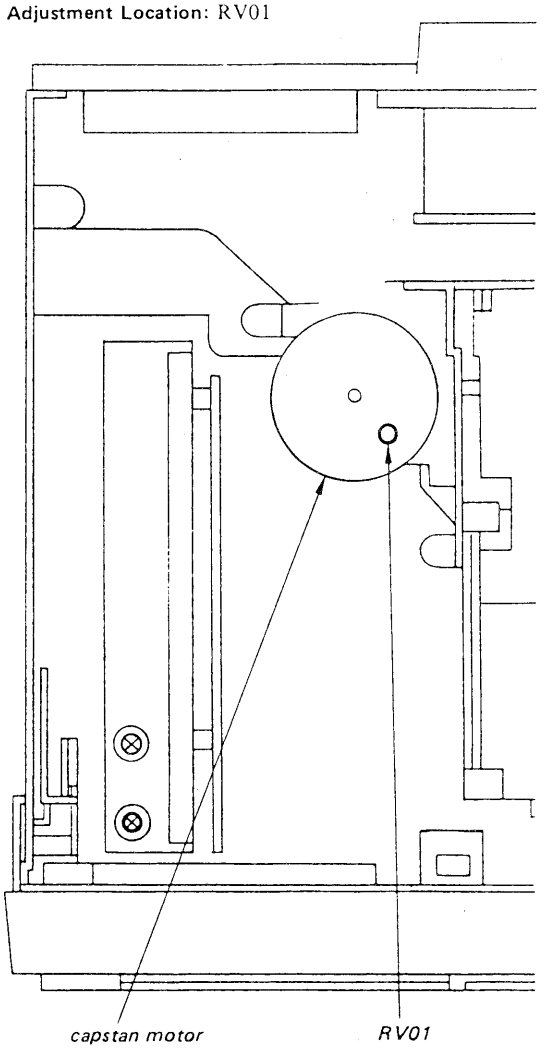


Specification:

Speed check jig	Frequency counter
− 1.5 to +0.5%	3,000 $^{+15}_{-45}$ Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5%.

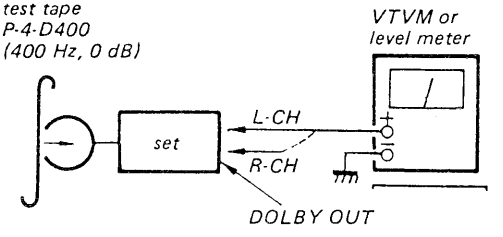
Adjustment Location: RV01



DOLBY NR Level Adjustment

Setting:

DOLBY NR switch: OFF

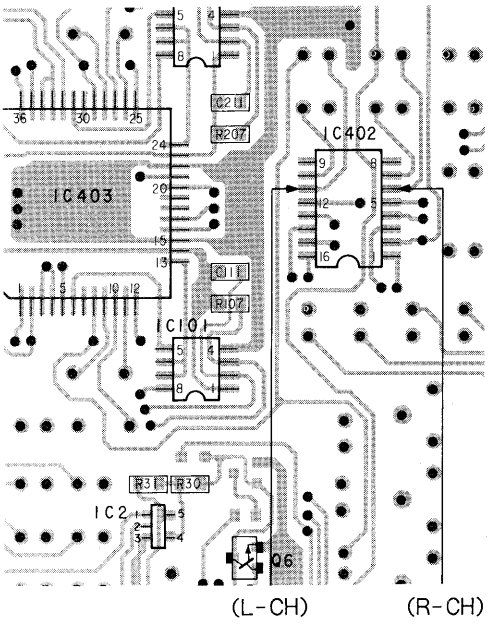


Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) so that VTVM reading is −6 ±1.5 dB.
3. Put the set into the REV PB mode.
4. Adjust RV201 (R-CH) so that VTVM reading is − 6 ± 1.5dB.
   (−6 ±1.5 dB: approx. 0.35 to 0.54 V)

Adjustment Location: Main board

[MAIN BOARD] (Componet side)



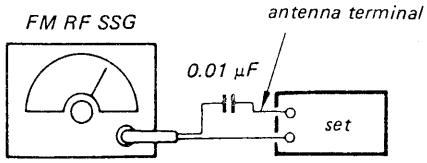
· See page 26 for adjustment location.

TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:
Band switch: FM
Frequency: 98.0MHz



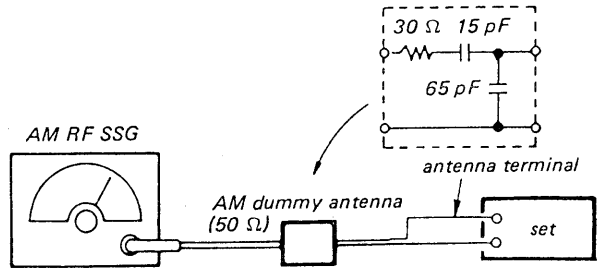
Carrier frequency: 98.0MHz
Output level: 25dBμV ± 5dBμV
Mode: mono, unmodurated

Procedure:
1. Tune in 98.0MHz.
2. Adjust RV01 so that the VOM reading changes from low to high (5V reference voltage).
3. When the FM RF SSG's output level is 25 ± 5 dBμV check that the auto scan stopped.

AM Auto Scan/Stop Level Adjustment

Note: This adjustment should be made after FM auto scan stop level adjustment is completed.

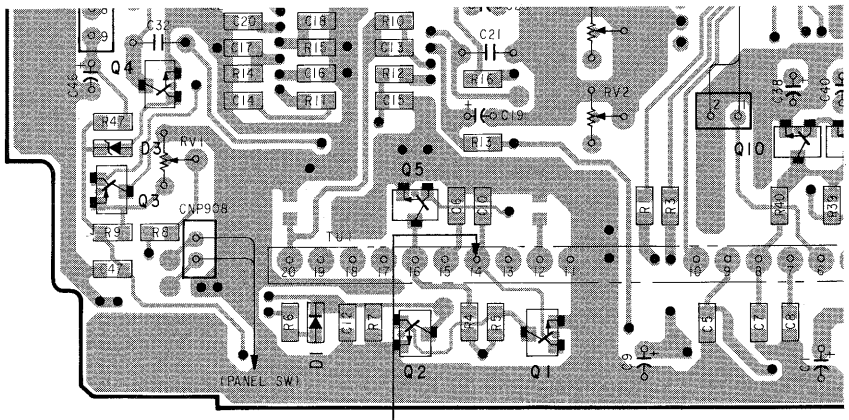
Setting:
Band switch: AM
Frequency: 999kHz

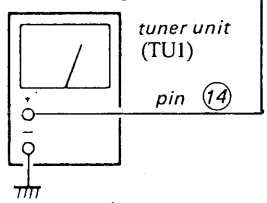


999kHz
30dBμV(31.8 μV) no modulation

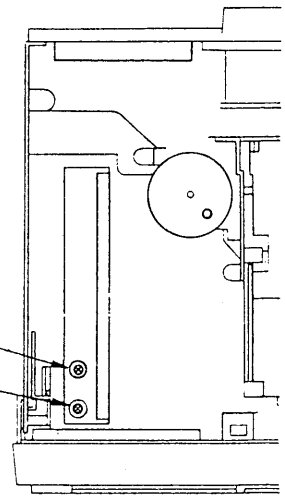
Procedure:
1. Turn in 999kHz
2. Adjust RV02 so that the VOM reading changes from low to high (5.6V reference voltage).
3. When the AM RF SSG's output level is 30 ± 5 dBμV check that the auto scan stopped.

[MAIN BOARD] (Conductor Side)





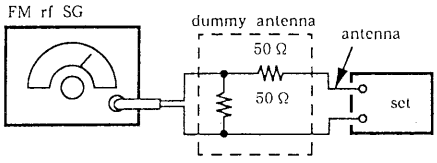
FM and AM auto scan/stop level adjustment VOM is connected as illustrated.



RV02 AM Auto Scan/stop Level Adjustment
RV01 FM Auto Scan/stop Level Adjustment

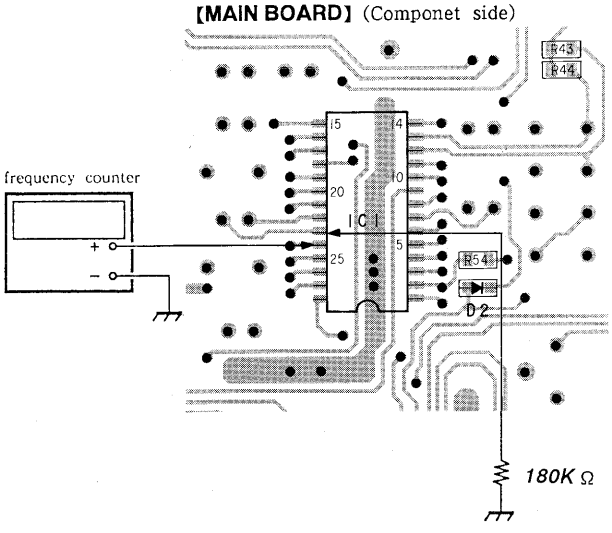
VCO Adjustment

Setting :



Carrier frequency : 98.0MHz
Modulation : no modulation
Output level : 60dBμV (1mV)

[MAIN BOARD] (Componet side)

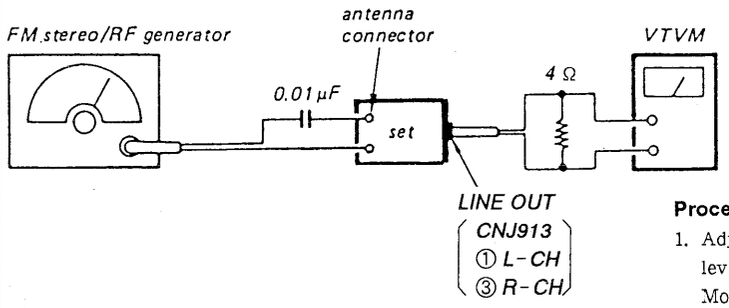


Prpcedure:

1. Using a resistor (180k Ω), connect IC1 ㉔pin and GND.
2. Push the SEEK 〈+, −〉 button for 98.0 MHz.
3. Adjust RV3 for 19kHz ± 50Hz reading on the frequency counter.
4. After adjustment is completed remove the resistor (180k Ω).

FM Stereo Separation Adjustment

Setting:
Band switch: FM
Frequency: 98.0MHz



Carrier frequency: 98.0MHz
Output level: *70 dB μV (3.15 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation
19 kHz pilot; 7.5 kHz deviation

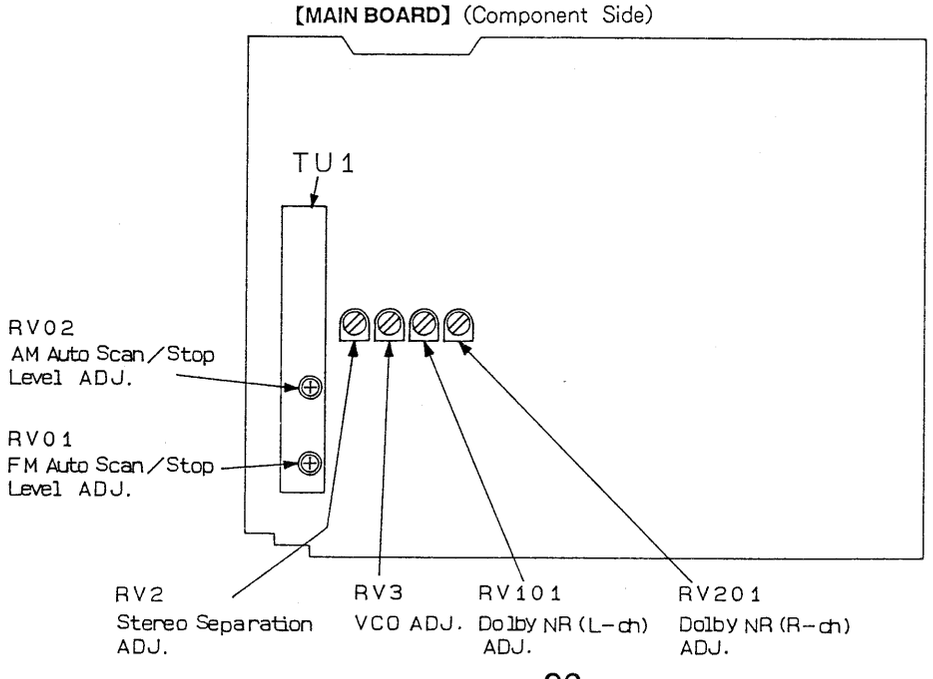
Procedure:

1. Adjust RV2 for a best stereo separation at a LINE OUT level of approximately – 10dBs.
   More then 25 dB.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV2 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV2 for minimum reading.

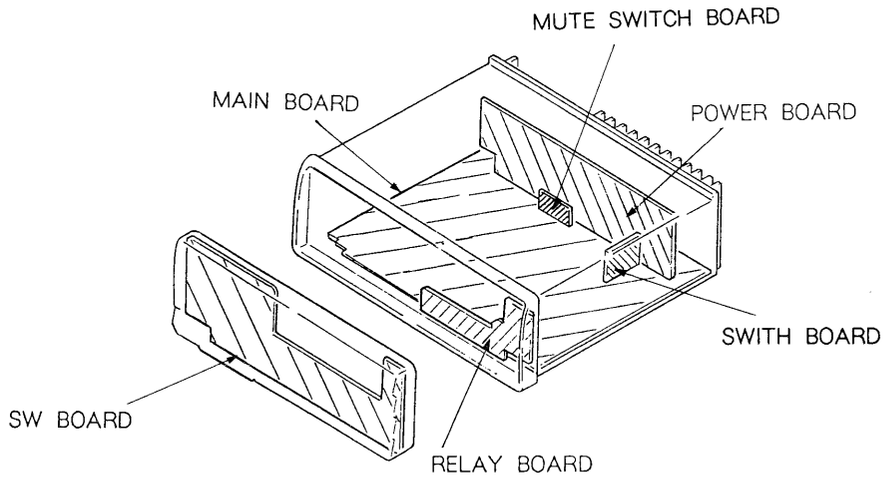
L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ
The separations of both channels shoul be equal.

• Adjustment Location



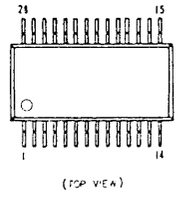
SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

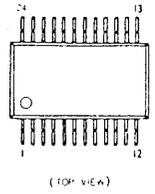


4-2. SEMICONDUCTOR LEAD LAYOUTS

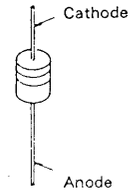
AN7463S



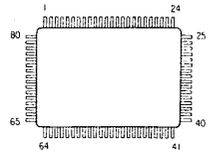
M51524FP



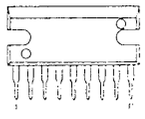
11ES2



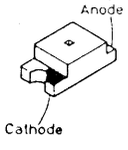
TC9240F



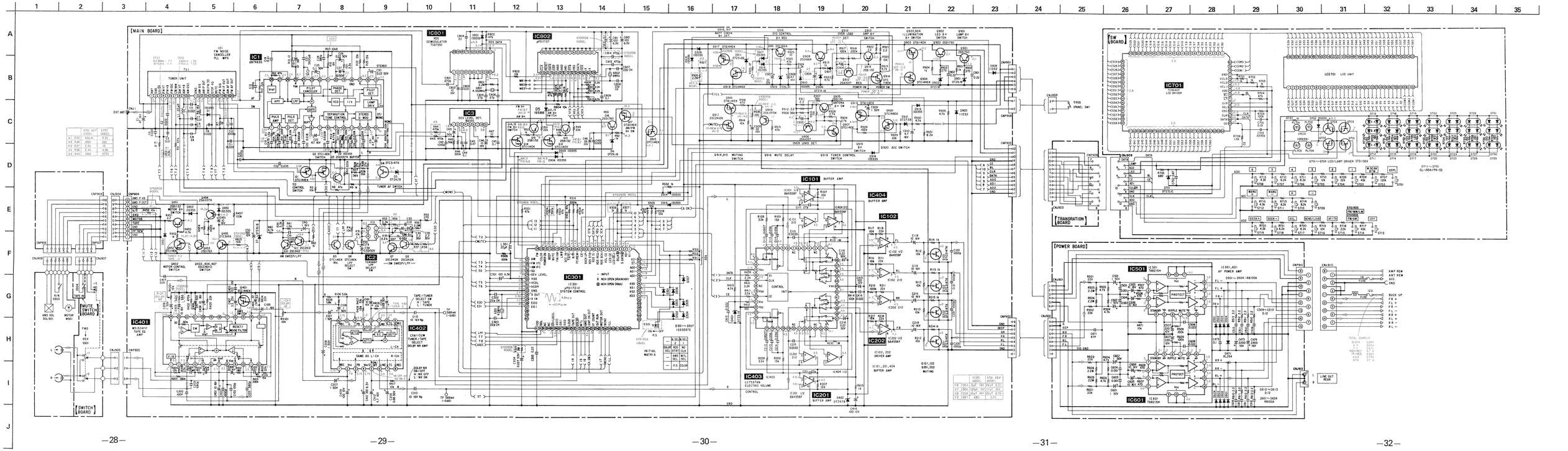
TA8215



CL-155Y1PG-CD



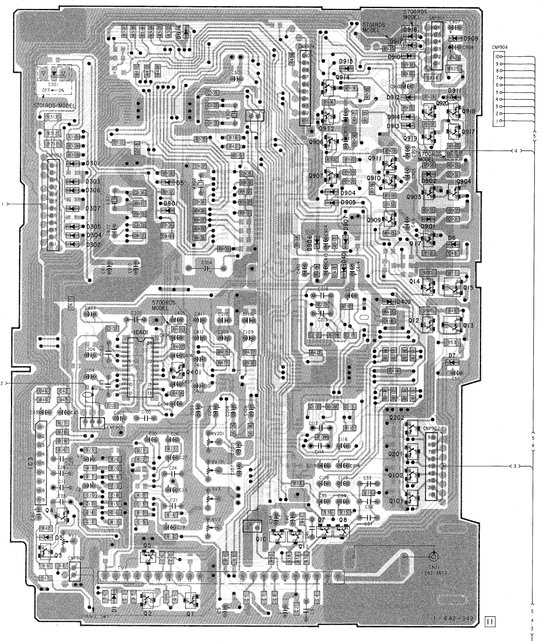
4-3. SCHEMATIC DIAGRAM



4-4. PRINTED WIRING BOARDS

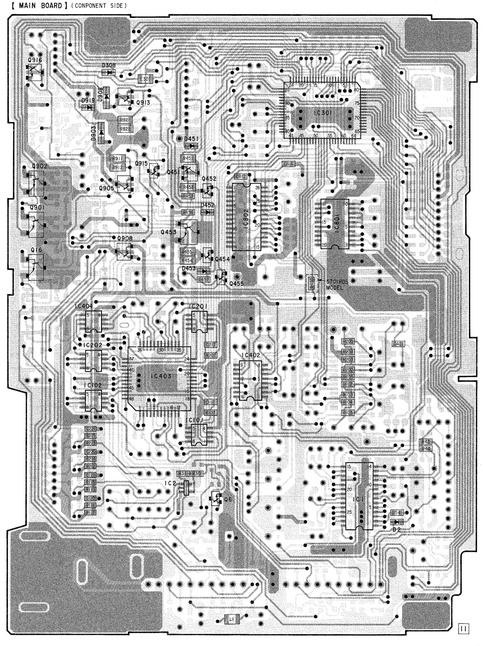
• See pae 27 for Circuit board Location and Semiconductor Lead Layouts.

[MAIN BOARD] (CONDUCTOR SIDE)



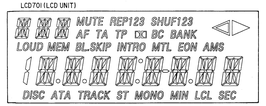
—33—

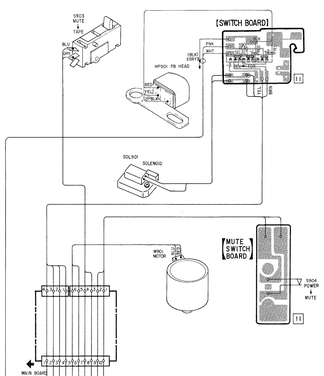
[MAIN BOARD] (COMPONENT SIDE)



—34—

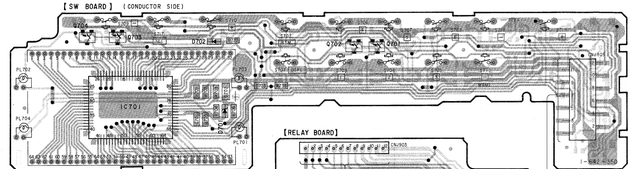
LCD701 (LCD UNIT)



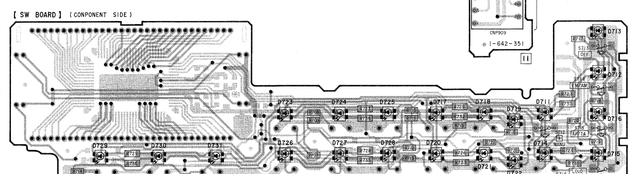


—35—

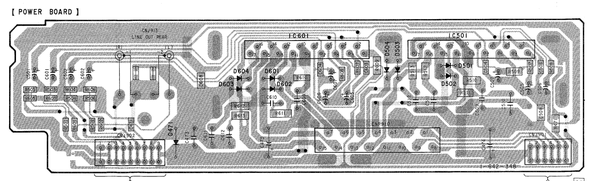
[SW BOARD] (CONDUCTOR SIDE)



[SW BOARD] (COMPONENT SIDE)



[POWER BOARD]



—36—

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	K-3	D725	F-30	IC802	D-14
D2	I-16	D726	G-28		
D3	I-2	D727	G-29	J1	J-4
D5	D-4	D728	G-30	J2	J-3
D6	E-8	D729	G-25	J3	I-2
D7	F-8	D730	G-26	J4	I-2
D301	C-2	D731	G-27	J5	J-3
D302	D-2	D801	D-8	J6	I-13
D303	E-2	D901	D-8	Q7	I-6
D304	D-2	D902	D-8	Q8	I-6
D305	D-2	D903	C-12	Q10	I-5
D306	D-2	D904	D-6	Q11	I-8
D307	D-2	D905	D-5	Q12	F-8
D308	B-12	D906	E-6	Q13	F-8
D401	E-6	D907	E-6	Q14	F-8
D402	F-7	D908	B-12	Q15	E-8
D451	C-13	D909	A-8	Q16	E-10
D452	D-13	D910	B-7	Q17	E-8
D453	E-13	D911	B-8	Q101	I-7
D471	J-27	D912	B-7	Q102	H-7
D501	I-31	D913	C-7	Q201	H-7
D502	I-31	D914	C-7	Q202	H-7
D503	I-31	D915	B-6	Q431	G-4
D504	I-30	D916	A-4	Q451	C-13
D601	I-29	D917	A-7	Q452	D-13
D602	I-29	D918	A-7	Q453	D-13
D603	I-28	D919	B-11	Q454	E-13
D604	I-28			Q455	E-13
D701	C-27	IC1	I-16	Q701	A-30
D702	A-27	IC2	H-13	Q702	A-29
D711	F-32	IC3	H-2	Q703	A-26
D712	E-33	IC101	G-13	Q704	A-25
D713	E-33	IC102	G-11	Q801	D-10
D714	G-32	IC201	F-13	Q902	D-10
D715	G-33	IC202	F-11	Q903	D-8
D716	F-33	IC301	B-15	Q904	D-8
D717	F-31	IC401	G-13	Q905	D-12
D718	F-31	IC402	G-14	Q906	C-6
D719	F-32	IC403	G-12	Q907	D-6
D720	G-31	IC404	F-11	Q908	E-12
D721	G-31	IC501	I-32	Q909	D-7
D722	G-32	IC601	I-29	Q910	D-7
D723	F-28	IC701	B-26	Q915	C-12
D724	F-29	IC801	D-15		

Note on Schematic Diagram :

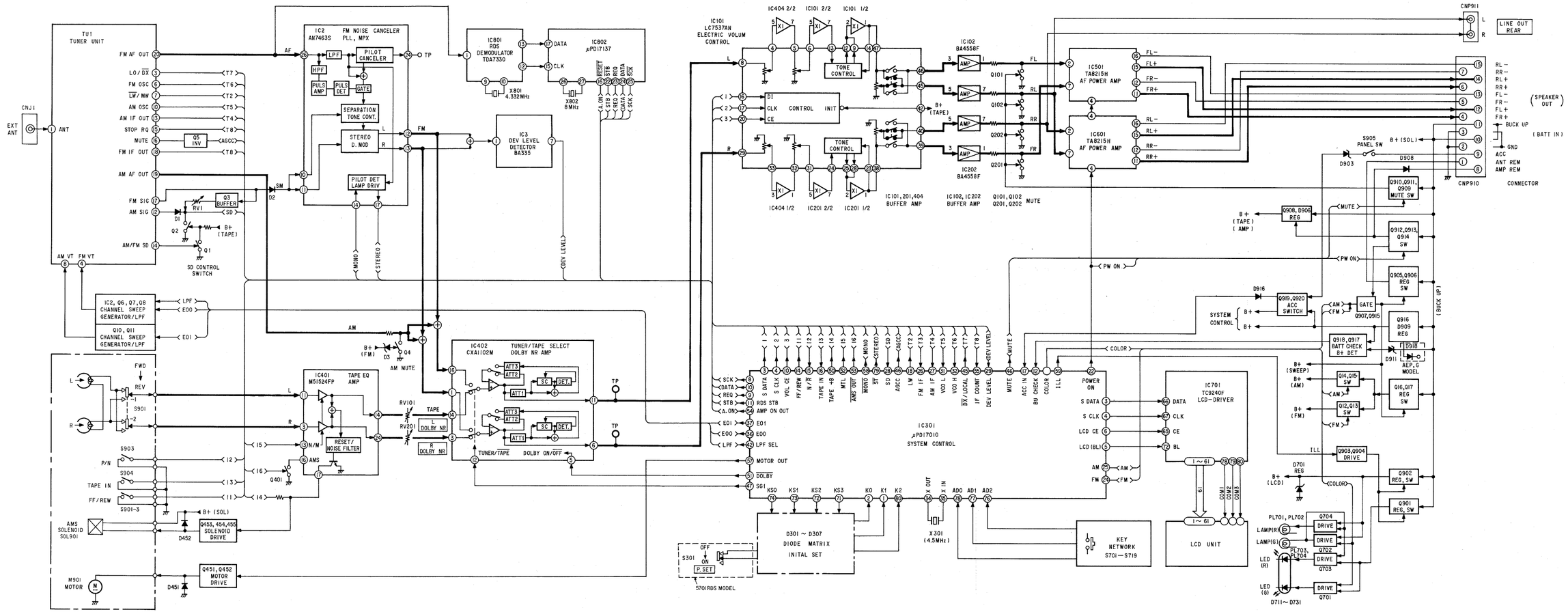
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- f : adjustment for repair.
- : Low.
- Power voltage is dc 14.4V and fed with regulated dc power supply from external power voltage jack.
  no mark : FM
  [ ] : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TAPE
  : AM
  : FM

Note on Mounting Diagram:

- : Parts extracted from the component side.
- : Through hole.
- : Pattern on the side which is seen.
- : Pattern on the rear side.

—37—

4-5. BLOCK DIAGRAM



4-6. IC DESCRIPTION

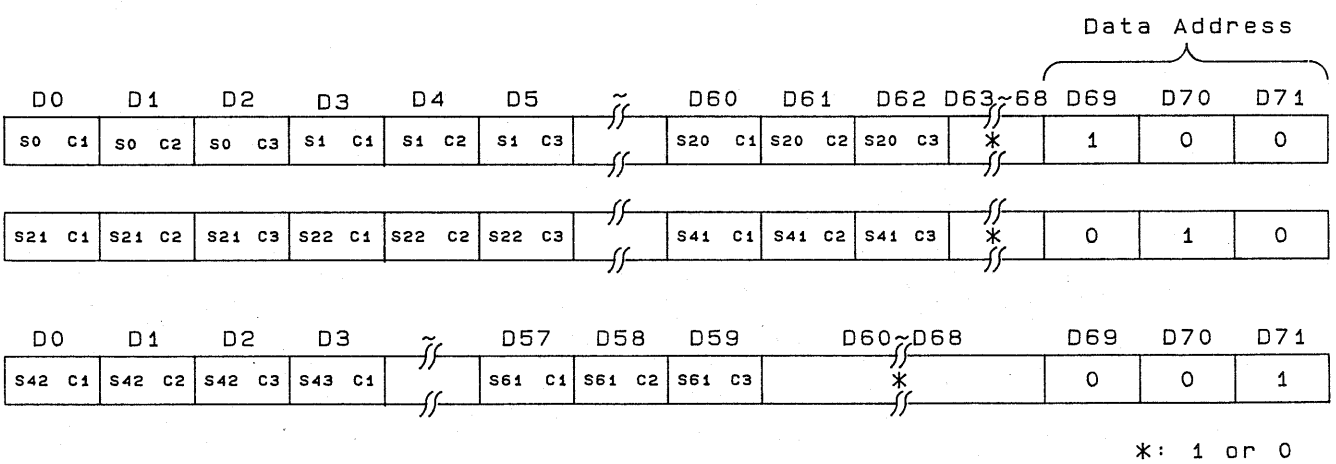
• **IC701 TC 9240F (LCD driver)**

LCD driver for displaying the frequency of the electronic tuning

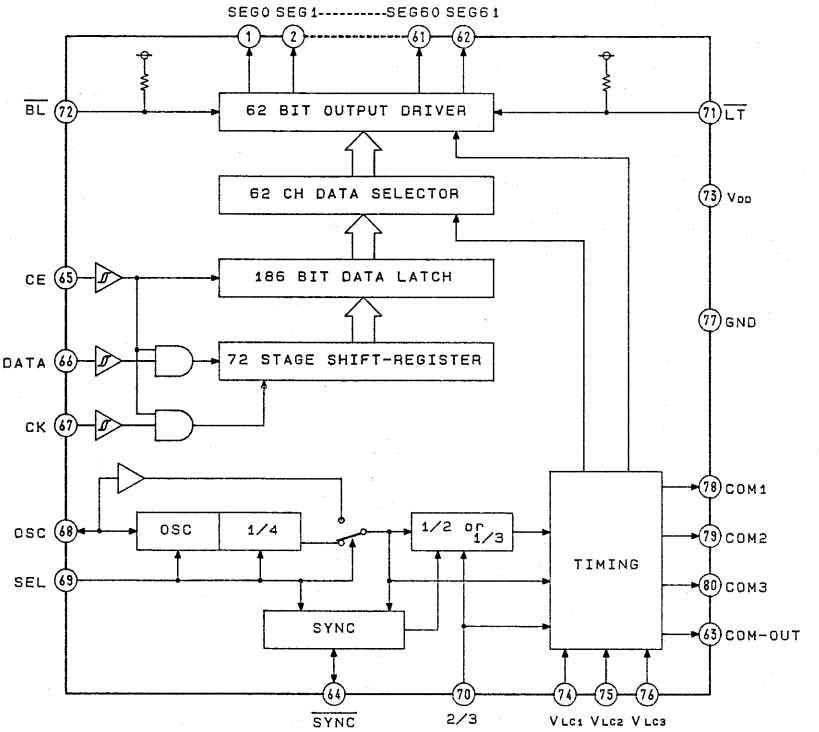
Pin No.	Pin Name	I/O	Description
1 to 62	SEG 0 to SEG 63	O	Segment output terminal
63	COM – OUT	O	Common output terminal
64	$\overline{SYNC}$	I/O	Syncro In/Out terminal
65	CE	I	Chip selector input terminal
66	DATA	I	Data input terminal
67	CK	I	Clock input terminal
68	OSC	–	Oscillation terminal
69	SEL	I	Master mode terminal
70	2/3	I	1/3duty mode
71	$\overline{LT}$	I	Lamp test input terminal Active = H : ALL segment is Light up
72	BL	I	Blanking input terminal Active = L : All segment branking
73	V_{DD}	–	Power supply terminal, + 5v
74	V_{LC1}	I	LCD drive bias voltage Setting Terminal
75	V_{LC2}	I	LCD drive bias voltage Setting Terminal
76	V_{LC3}	I	LCD drive bias voltage Setting Terminal
77	GND	–	Power supply terminal, GND
78	COM1	O	Common drive terminal
79	COM2	O	Common drive terminal
80	COM3	O	Common drive terminal

Data Transmission System

• **Data Format**



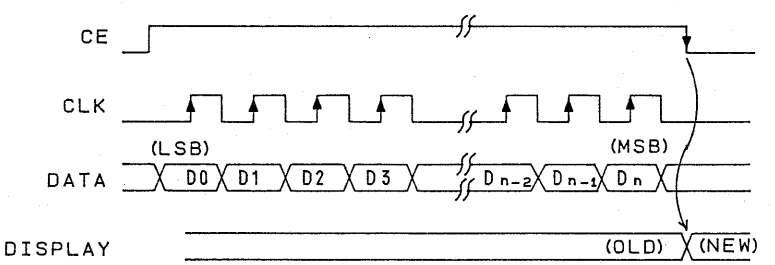
• **Block Diagram (TC9240F)**



Description of Operation

Input Data Format

- The display data are inputted according to the following timing.



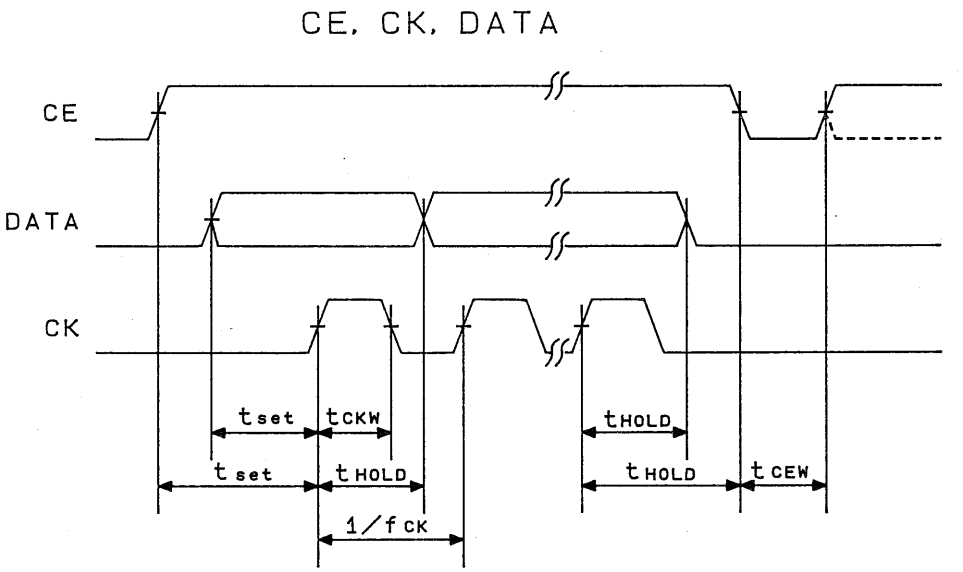
- The data consisting of 72 bits (D0 – D71) is transferred 3 times.
- 3 bits from MSB, i.e. the last 3 bits represent the address data.

• Data format in 1/3 duty mode.

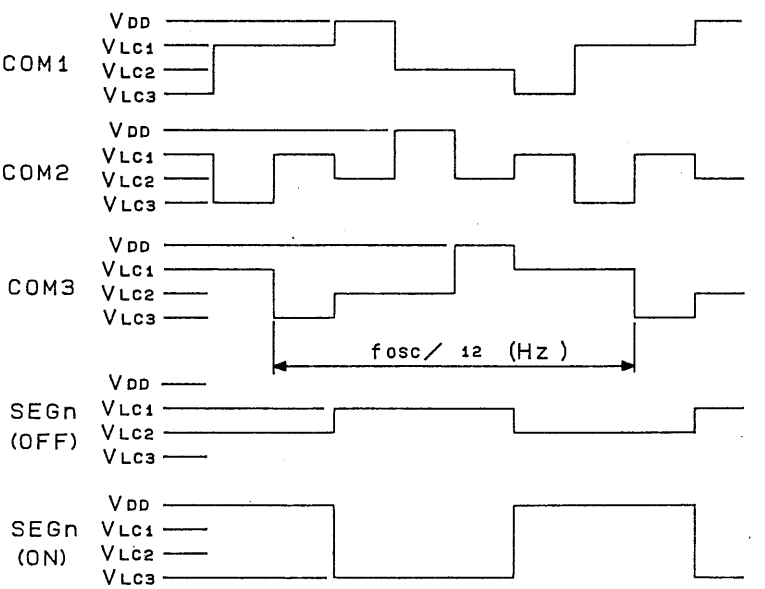
COM1 DATA : D0, D3, D6··· (D0 + 3n)
COM2 DATA : D1, D4, D7··· (D1 + 3n) (n = 0~61)
COM3 DATA : D2, D5, D8··· (D2 + 3n)

Address DATA : "100" = SEG0~SEG20
"010" = SEG21~SEG41
"001" = SEG42~SEG61

Serial Data



Output Waveform



• **IC301** μPD17010 (System control)

Pin No.	Pin Name	Name	I/O	Active
1	POC1	KR1	I	–
2	POC0	KR0	I	–
3	SDA	SO	O	–
4	SCL	SCK	O	–
5	POA1	/LCD BLK	O	L
6	POA0	LCD_CE	O-P	H
7	POB3	VOL_CE	O-P	H
8	POB2	RDS_SCK	I-P	H
9	POB1	RDS_REQ	I	H
10	POB0	RDS_SI	I	–
11	INT1	RDS_STB	I	H
12	INT0	BU	I	H
13	CE	CE	I	H
14	P1A3	/FF-REW	I	L
15	P1A2	N-R	I	–
16	P1A1	/TAPE	I	L
17	P1A0	REM_IN	I	H
18	P1B3	/LW	O-N	L
19	P1B2	FM/AM	O-N	L
20	P1B1	MUTE	O-N	L
21	CGP	BEEP	O-P	/
22	P1C3	POWER ON	O-P	H
23	P1C2	COLOR	O-P	H/L
24	P1C1	FM	O-P	H
25	P1C0	AM	O-P	H
26	FMIFC	FMIFC	I	–
27	AMIFC	AMIFC	I	–
28	ADC1	SDL	I	LEVEL
29	P1D0	DEV LEVEL	I	L
42	P2A0	NC	O-P	–
43	COM1	NC	O	–
44	COM0	NC	O	–
45	POF3	LOCAL/DX	O	H
46	POF2	AGCC	O-P	H
47	POF1	SIG1	O-P	–
48	POF0	SIG2	O-P	–
49	POE3	LOUD	O-P	H
50	POE2	TAPE+B	O-P	H
51	POE1	/DOLBY	O-P	L
52	POE0	METAL	O-P	H
53	POX5	/AMS OUT	O-P	L
54	POX4	TUNER ON	O-P	H
55	POX3	IF COUNT	O-P	H
56	POX2	REM_OUT	O-P	H
57	POX1	MOTOR_OUT	O-P	H
58	POX0	MONO	O-P	H
59		ILL		
≀		NC	O-P	–
70				
71	POY3	KS3	O	H
72	POY2	KS2	O	H
73	POY1	KS1	O	H
74	POY0	KS0	O	H
75		NC	I	–
76	ADC4	KAD0	–	–
77	ADC3	KAD1	–	–
78	ADC2	KAD0	–	–
79	POC3	ST	I	–
80	POC2	KR2	I	–

* : O-P : COMS push pull output
O-N : N-ch open drain output

* [ ] : IC Pin No.

[1] [2]

A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

[3] [4]

Serial data output terminal. Data of LCD and the electric volume outputs.

[5]

LCD display control terminal. Displaying or non-displaying of LCD is controlled.

[6]

LCD data output control terminal. When this terminal is high, the serial data of LCD outputs.

[7]

Electric volume data output control terminal. When this terminal is high, the serial data of the electric volume outputs.

[12]

Back-up power input terminal. When the CE terminal and this terminal are set to low, the microcomputer conducts the clock stop operation and maintains the data of the preset memory. When VDD is set to 3.5 V or less, the power is turned ON, the memory is reset and initialized.

[13]

Microcomputer operation selection input terminal. When "High", the microcomputer operates normally. When the BU terminal is set to high and this terminal is set to low, the microcomputer conducts the halt operation and stops instantaneously. This terminal is a Schmitt trigger input includes the hysteresis and the level within 100-165 μS is not applicable.

Note : When this terminal is low in the FM reception, EO_{12} may be changed. It is necessary to set the MUTE_REQ terminal to high before setting this terminal to low.

Back-up State

* Vdd = 3.5 V or more

CE	BU	Clock operation	Memory maintain	Microcomputer	Power consumption
L	L	Stop	YES	STOP	15 uA (Max.)
	H	Operating	YES	HALT	10 mA (Max.)
H	L	Operating	YES	Key input inhibit	Normal
	H	Operating	YES	Normal operation	Normal

[14]

FF-REW state input terminal. FF-REW state is detected.

[15]

N-R input. Tape transition state input terminal. The transition state is detected.

[16]

Tape signal input terminal. A state of the mechanical deck is detected.

Low	Tape
High	No tape

[17]

AUX input terminal. The AUX state is detected.

[18]

LOCAL/DX state terminal. Output is inverted with the SENS key. LOCAL outputs when high.

[46]

/AGCC output. Auto gain cut signal output terminal. High level signal outputs in the memory scan and the SEEK operation.

[21]

Beep sound output terminal. When an applicable key is pressed, the beep sound signal outputs for 40 ms. The frequency of the beep sound is changed with the pressing time.

	Frequency
Pressed normally	2.25 kHz
Pressed for two	750 Hz

[22]

Power control terminal for the whole set. High outputs when radio, tape or aux mode.

[23]

Illumination color switching output terminal. Output is inverted by pressing the SEL + M1 keys.

[24] [25] [45]

Band selection signal is output.

[26]

FM intermediate frequency input terminal. When 10.7 MHz ± 12.5 kHz signal is input to this terminal, it is discriminated that a broadcast station is selected. The direct current is cut with the capacitor because an alternate amplifier is built in.

[27]

AM (MW/LW) intermediate frequency input terminal. When the signal of 450 kHz ± 2 kHz is input to this terminal, it is discriminated that a broadcast station is selected. The direct current is cut with the capacitor because an alternate amplifier is built in.

[28]

SDL level signal input terminal. When the voltage of this terminal is more than the specified value, there is a broadcast station is selected.

Note : This terminal and the intermediate frequency in the SEEK operation are checked and the broadcast station selection is discriminated.

FM	10.5/64 Vp-p or more
AM	6.5/64 Vp-p or more

[79]
STEREO input terminal. When this terminal is low in the FM stereo input waiting mode, the LCD is lit.

[20]
Mute signal output terminal. When switching the function, high outputs for the time more than the noise time.

[47] [48]
Mode switching signal output terminal. Outputs are applicable for the mode as shown in the table.

Mode	SIG1	SIG2
OFF	L	L
Radio	L	L
AUX	L	H
Tape	H	L

[49]
LOUD signal output terminal. Output is inverted by pressing the LOUD key in the mode other than the OFF.

[50]
Tape power control terminal. When the tape function is selected, a high signal outputs.

[51]
Dolby control terminal. When Dolby function is selected, a low signal outputs.

[52]
Metal control output. When the METAL function is selected, a high signal outputs.

[53]
AMS control output. The AMS function is selected and a low signal outputs in the FF-REW mode.

[54]
When ATA is selected in the radio or tape mode, the output signal is high.

[55]
IF count request signal output terminal. When the SD level is more than the specified value in the SEEK operation, this terminal is high and the intermediate frequency is requested to be output.

[56]
AUX signal state output terminal. When the set is in the AUX mode, a high signal outputs.

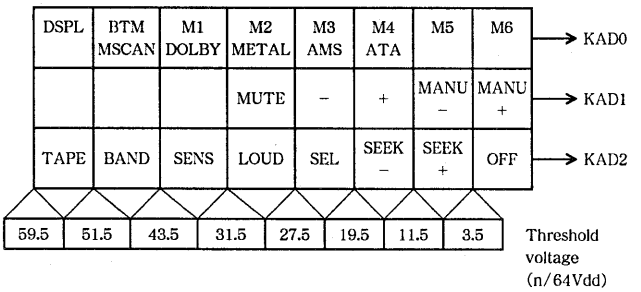
[57]
Motor control terminal. When the tape function is selected, a high signal outputs.

[58]
Forced MONO output terminal. Output is inverted with the SENS key. Forced MONO outputs when high.

[59]
Illumination ON/OFF output terminal

[71] [72] [73] [74]
A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

[76] [77] [78]
A resistance value of the key input resistor circuit is scanned and it is detected which key is pressed.



When the voltages of the terminals are as shown below ;
KAD0 = 2.5/64Vdd
KAD1 = 62.5/64Vdd
KAD2 = 62.5/64Vdd
it is discriminated that M6 key is pressed.

[80]
A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

Operation Mode and Function Selection

When the power is ON to reset, the state of the diode switch is read and the initial setting of the microcomputer and a the function are selected. Also, when ACC is ON, the state of the diode is read again and it is inspected whether the state matches the diode switch in the memory of the microcomputer. If not, an operation same as the power-ON-reset is conducted.

Diode Switch

☐ Diode Switch Matrix

	K (02)	K (01)	K2 (80)
KO (74)	B. SEL1	B. SEL1	——
KS1 (73)	NO CLK	RDS	DOLBY
KS2 (72)	MTL SBL	AMS	ATA
KS3 (71)	COLOR	POWER	——

1) AREA 1, AREA 2 and AREA 3 : Destination Selection
The band selection of the tuner function is conducted. When the setting other than the following table is conducted.

AREA1	AREA2	AREA3
0	1	0

0 : No diode
1 : Diode

☐ Frequency List for the Destination

BAND	Freq. (Min.) (Hz)	Freq. (Max.) (Hz)	Intermediate Frequency (Hz)	Reference Frequency (Hz)	Channel Space	PLL System
FM 1, 2, 3	87.5 M	108.0 M	107 M	25 k	50 k	Pulse
AM 1, 2	531 k	1602 k	450 k	9 k	9 k	Pulse

* All PLL operation modes are conducted in pulse-swallow system.

☐ Preset Memory List

BAND	Fmin(Hz)	M1	M2	M3	M4	M5	M6
FM1	87.5M	--	97.5	98.0	98.5	--	--
AM1	531K	--	909	999	1089	--	--

* A lowest frequency is set for the band other than the above bands or for "--".

2) BEEP : Beep Output Selection
It is selected for a beep sound when pressing a key. When it is set to sound beep, the beep sound switching function (SEL + M4) is available.

BEEP	Note
0	Sounds
1	Not sound

3) Dolby : Dolby Function Selection
A Dolby function is selected.

DOLBY	Note
0	Available
1	Not available

4) METAL : Metal Function Tape Selection
Metal function is selected.

METAL	Note
0	Available
1	Not available

5) AMS : AMS Function Selection
AMS function is selected.

AMS	Note
0	Available
1	Not available

6) ATA : ATA Function Selection
ATA function is selected.

ATA	Note
0	Available
1	Not available

7) P_SEL : Illumination ON Selection
The state of the ILL terminal when pressing the OFF key is selected.

P SEL	ILL	Note
0	0	Illumination ON : No display
1	1	Illumination OFF : Clock display

9) COLOR : Illumination color selection

Color switching (SEL + M1) of the illumination is selected.

COLOR	Note
0	Color switching is not available
1	Color switching is available

10) SDK : SDK (ARI) Function Selection

SDK	Note
0	SDK function is not available.
1	SDK function is available.

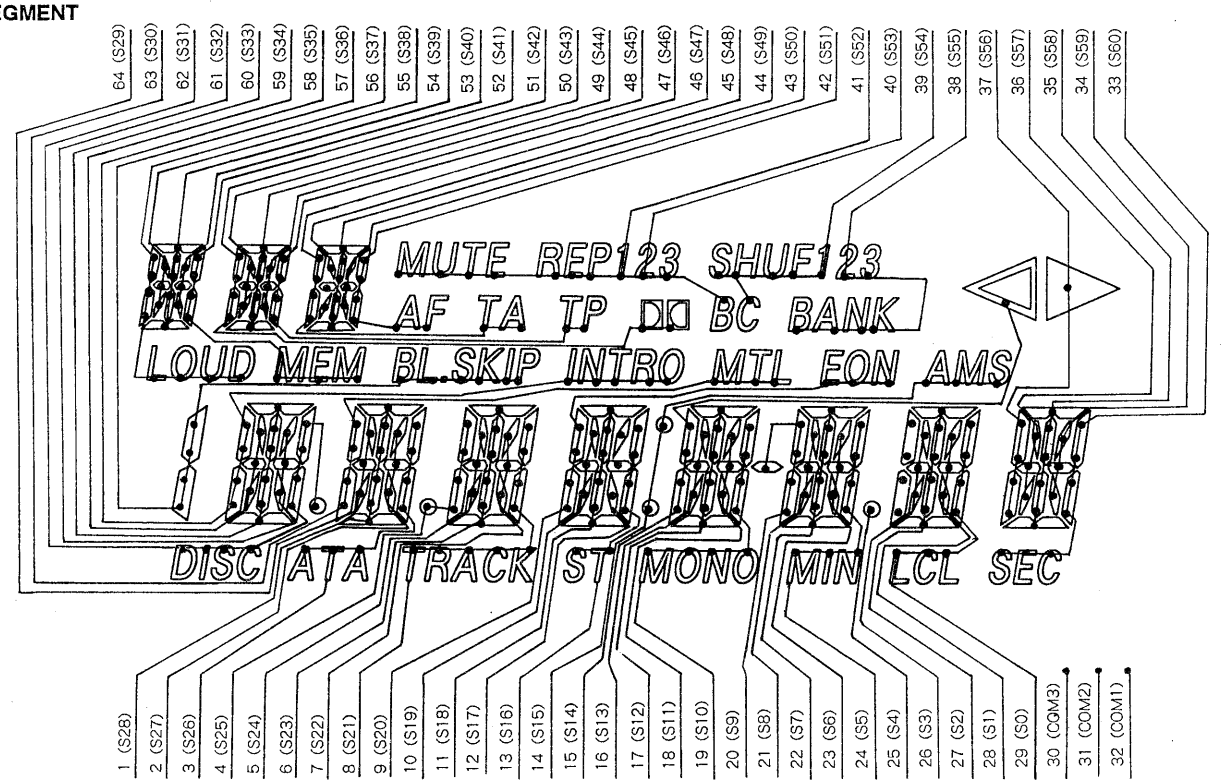
11) POWER 2 : Operation Mode Selection

SDK	Note
0	Mode A (Tape is prior to others)
1	Mode B (Selected mode is prior to other mode.)

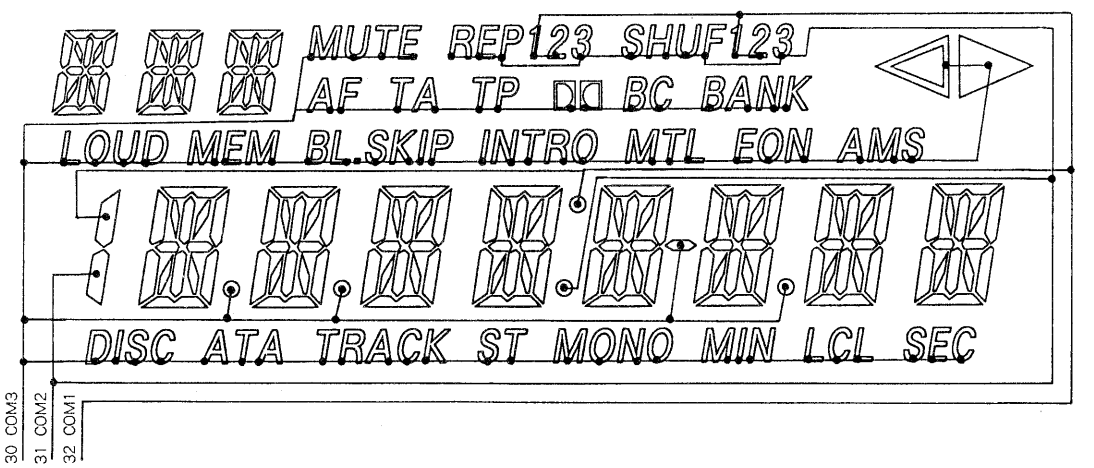
- Mode A (Tape is prior to others)
  Tape mode is selected prior to other mode.
  Tape > AUX > OFF > Tuner
- Mode B (Selected mode is prior to other mode.)
  When a mode is selected, it enters the mode.

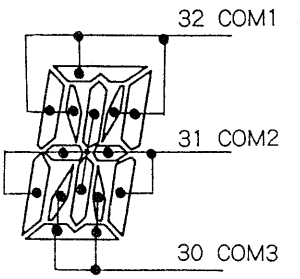
4-7. LCD UNIT LCD701

• SEGMENT



• COMMON

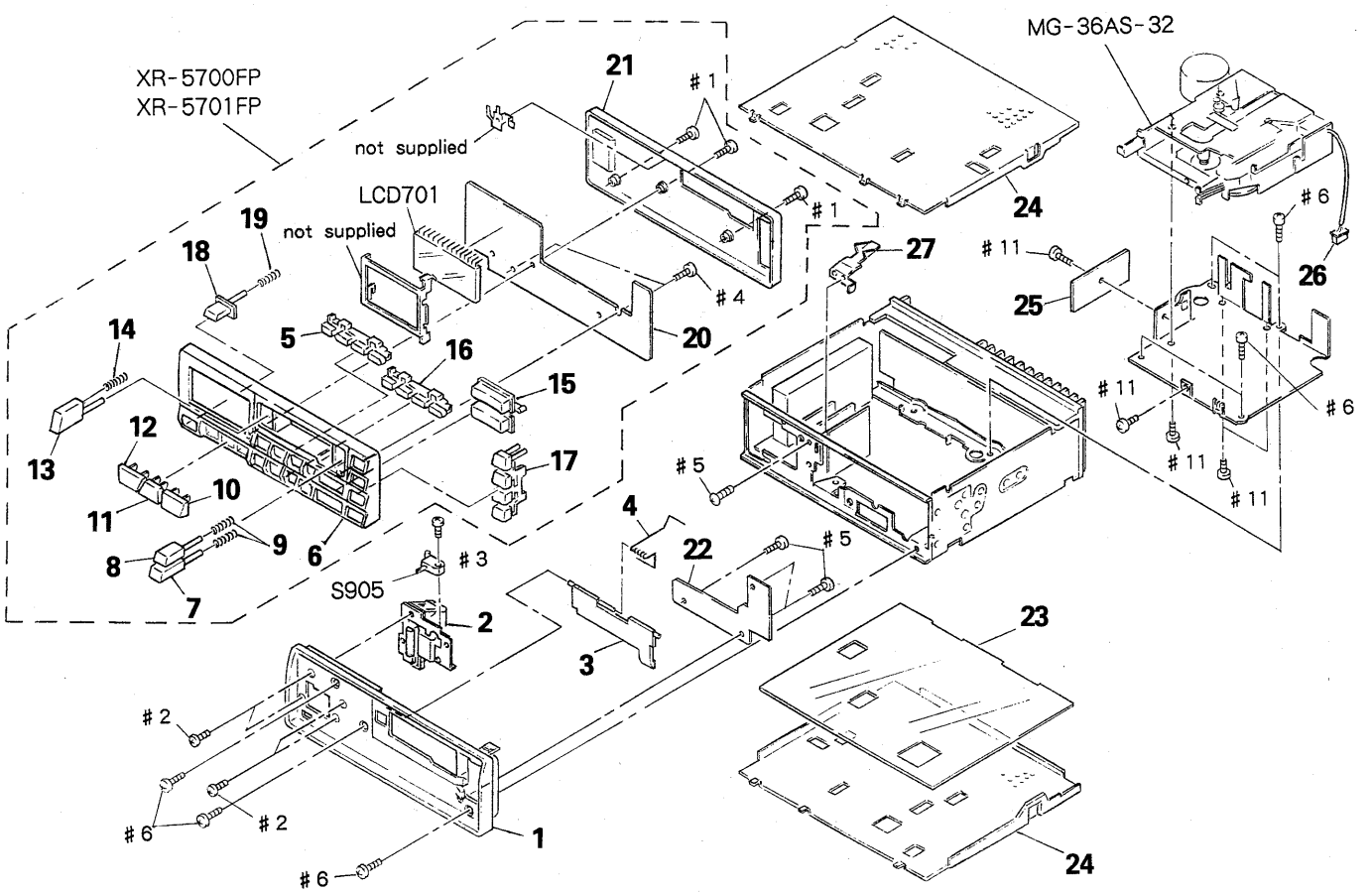

MUTE REP123 SHUF123
AF TA TP BC BANK
LOUD MEM BL.SKIP INTRO MTL EON AMS
DISC ATA TRACK ST MONO MIN LCL SEC
30 COM3
31 COM2
32 COM1



SECTION 5
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

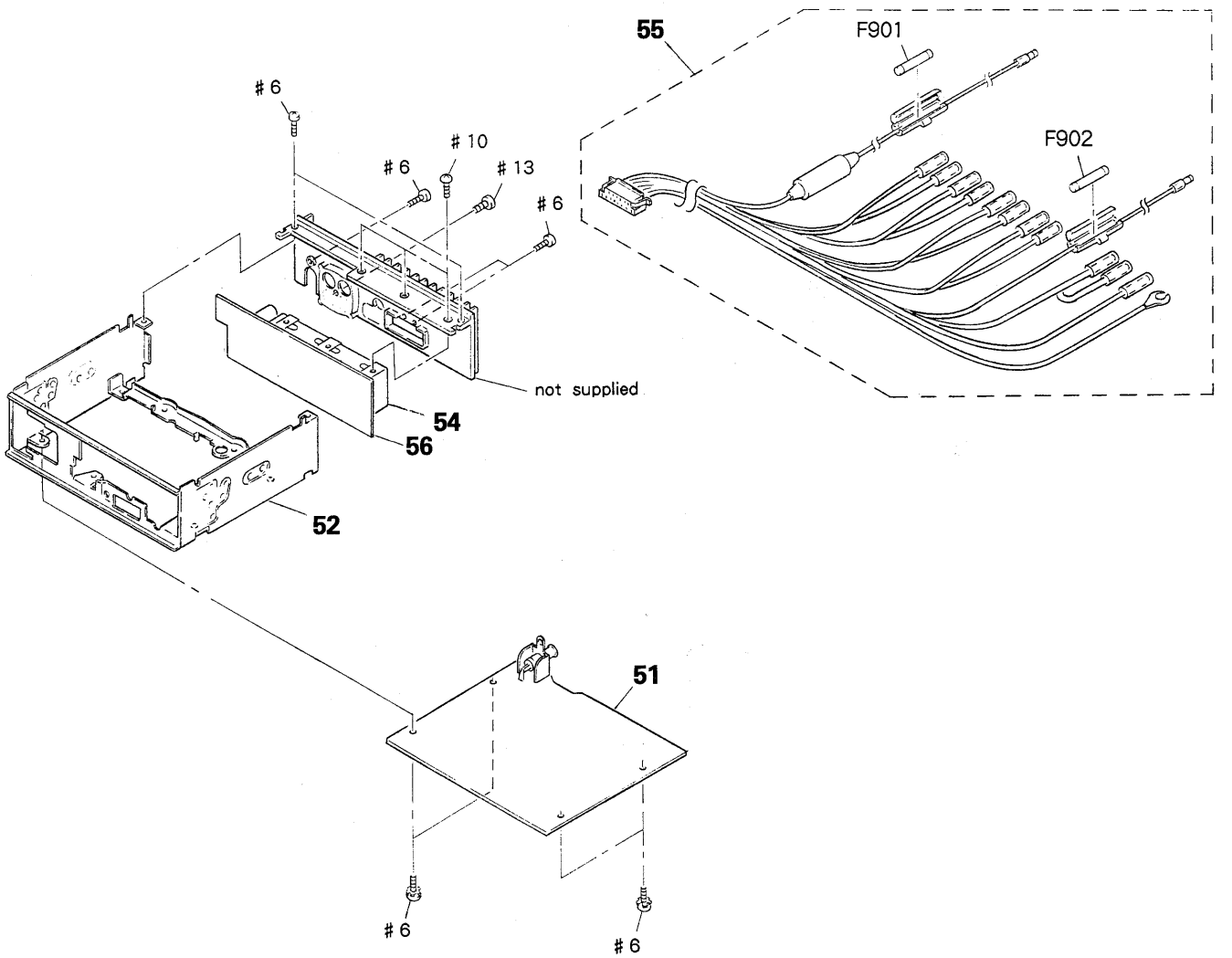
5-1. CHASSIS ASSEMBLY 1



Ref. No.	Part No.	Description	Remarks
1	3-375-349-01	PANEL, SUB	
2	X-3364-494-1	LEVER ASSY, HOLDER	
3	3-377-633-51	DOOR, CASSETTE (5700RDS)	
3	3-377-633-61	DOOR, CASSETTE (5701RDS)	
4	3-377-892-01	SPRING (C DOOR), TORSION COIL	
5	3-375-556-01	BUTTON (1), PRESET	
6	3-375-555-01	PANEL, FRONT (5700RDS)	
6	3-375-555-11	PANEL, FRONT (5701RDS)	
7	3-375-361-01	BUTTON (REW)	
8	3-375-360-01	BUTTON (FF)	
9	3-375-372-01	SPRING (FF REW)	
10	3-375-356-01	BUTTON (+)	
11	3-375-355-01	BUTTON (SEL)	
12	3-375-354-01	BUTTON (-)	
13	X-3364-976-1	BUTTON ASSY, EJECT	
14	3-375-371-01	SPRING (EJECT)	

Ref. No.	Part No.	Description	Remarks
15	3-377-718-01	BUTTON (M/SEEK)	
16	3-375-557-01	BUTTON (4), PRESET	
17	3-377-632-21	BUTTON (R4) (5700RDS)	
17	3-377-632-31	BUTTON (R4) (5701RDS)	
18	3-375-358-01	BUTTON (RELEASE)	
19	3-375-373-01	SPRING (RELEASE)	
20	* A-3273-757-A	SW BOARD, COMPLETE	
21	3-375-348-01	PANEL, FRONT BACK	
22	1-642-351-11	RELAY BOARD	
23	* 3-377-593-11	INSULATOR	
24	* 3-377-591-01	COVER	
25	* 3-379-129-01	TRANSLATION BOARD	
26	* 3-379-131-01	SHIELD ASSY (B), 3 ARBOR	
27	* 3-377-825-01	PLATE, LOCK	
S905	1-570-771-11	SWITCH	
LCD701	1-809-595-11	DISPLAY PANEL, LIQUID CRYSTAL	

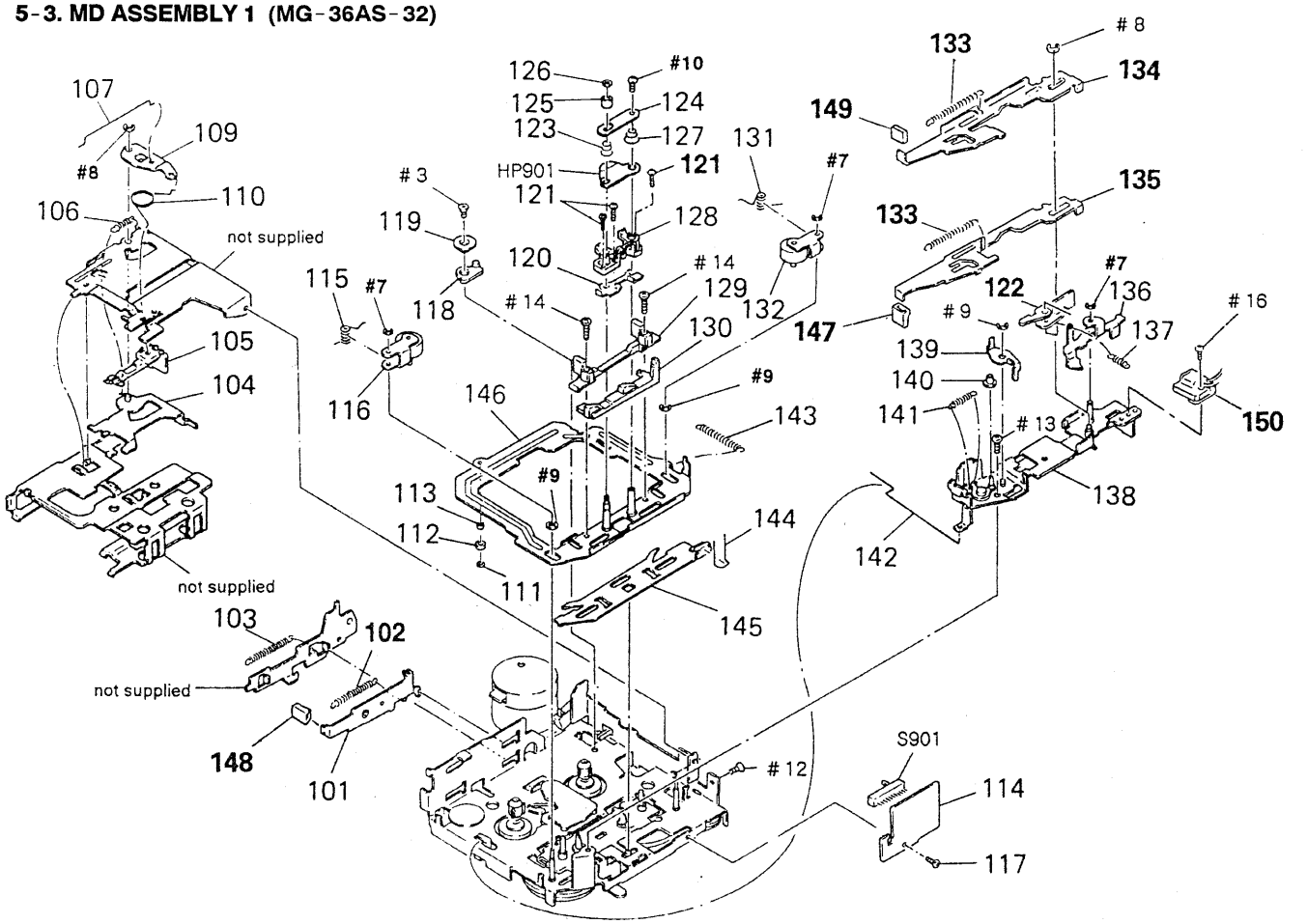
5-2. CHASSIS ASSEMBLY 2



Ref. No.	Part No.	Description	Remarks
51	* A-3222-362-A	MAIN BOARD, COMPLETE (5700RDS)	
51	* A-3273-959-A	MAIN BOARD, COMPLETE (5701RDS)	
52	* X-3364-495-1	CHASSIS ASSY	
54	* 3-375-365-01	BRACKET(IC)	

Ref. No.	Part No.	Description	Remarks
55	1-690-870-11	CORD (WITH CONNECTOR)	
56	* A-3273-753-A	POWER BOARD, COMPLETE	
F901	1-532-678-11	FUSE, GLASS TUBE 12A	
F902	1-532-414-11	FUSE, GLASS TUBE 1A	

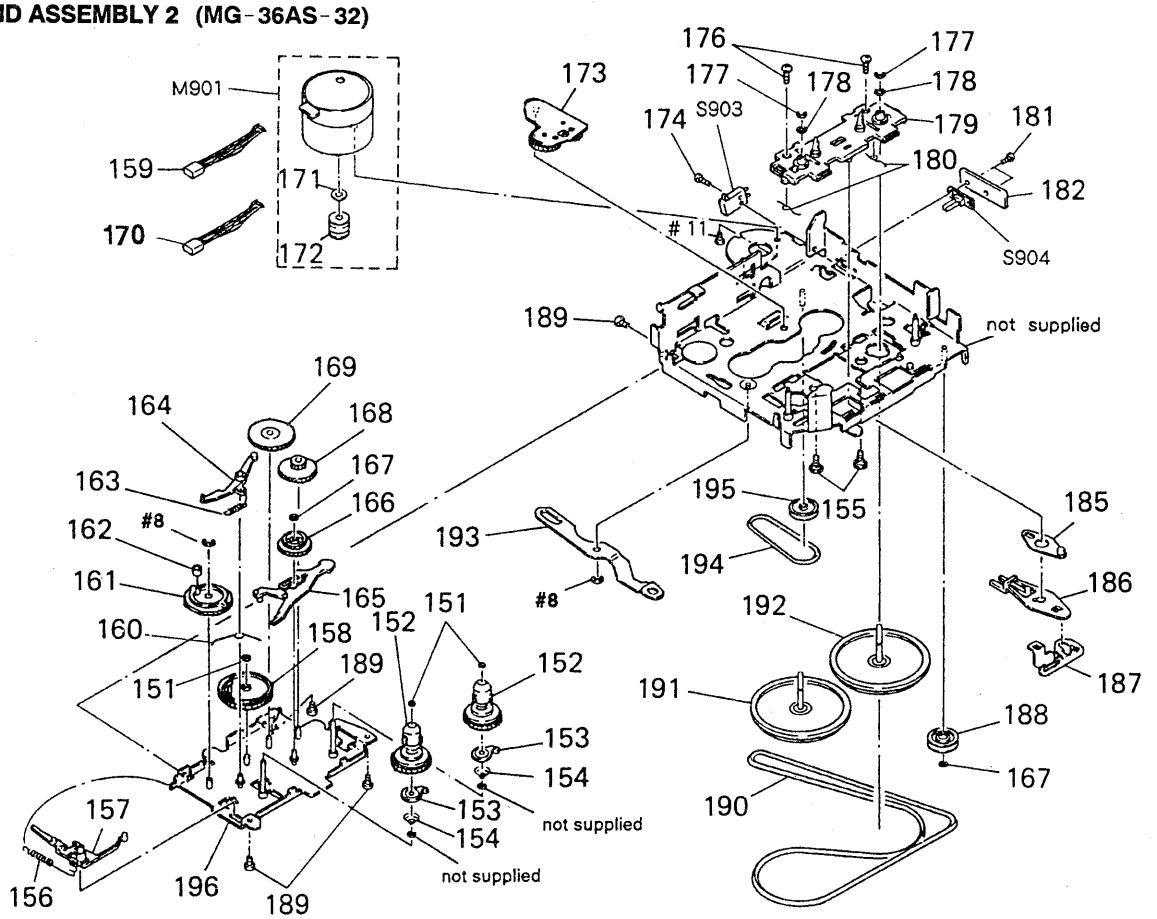
5-3. MD ASSEMBLY 1 (MG-36AS-32)



Ref. No.	Part No.	Description	Remarks
101	* 3-379-144-01	LEVER (S), EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
104	* 3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	FUKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
109	* 3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	SWITCH BOARD	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
117	* 4-908-792-11	SCREW (B2X3), TAPPING, P1	
118	3-372-244-01	ARM (N), MUTE	
119	* 3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
122	3-392-903-01	ARM, RELEASE	
123	3-392-956-01	SPRING (A)	
124	* 3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	

Ref. No.	Part No.	Description	Remarks
127	3-392-955-01	SPRING (A)	
128	* 3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-01	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
134	* 3-379-118-01	LEVER (AS), FF	
135	* 3-379-117-01	LEVER (AS), REW	
136	* 3-392-904-01	ARM (A), LOCK	
137	3-392-902-01	SPRING (A)	
138	* 3-372-242-01	BRACKET ASSY (D), LEVER	
139	* 3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
145	* 3-392-919-01	ARM ASSY, F,R SELECTION	
146	* 3-392-975-02	PLATE ASSY, HEAD	
147	* 3-379-139-01	BUTTON, REW	
148	* 3-379-140-01	BUTTON, EJECT	
149	* 3-379-141-01	BUTTON, FF	
150	1-454-464-12	SOLENOID, PLUNGER	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE	

5-4. MD ASSEMBLY 2 (MG-36AS-32)



Ref. No.	Part No.	Description	Remarks
151	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
152	3-392-905-01	SPINDLE ASSY (HSP), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
159	* 3-379-132-01	CONNECTOR ASSY, 6P	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
170	* 3-379-116-01	CONNECTOR ASSY, 4P	
171	* 3-392-912-01	WASHER, MYLAR	
172	* 3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	

Ref. No.	Part No.	Description	Remarks
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
179	* 3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE SWITCH BOARD	
185	* 3-392-925-01	ARM (A) ASSY, F.R	
186	* 3-392-939-01	ARM, FF	
187	* 3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
189	* 4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
193	* 3-392-979-01	LEVER, REVERSE	
194	3-375-375-01	BELT (C), SUB	
195	3-392-938-01	GEAR, PULLY	
196	* 3-392-976-01	BASE ASSY, REEL	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF	
S904	1-554-790-21	SWITCH, POWER	

MAIN

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL : metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example :
  uA... : μA... , uPA... , μPA... , uPB... , μPB... , uPC... , μPC... , uPD..., μPD...
- CAPACITORS :
  uF : μF
- COILS
  uH : μH

Ref. No.	Part No.	Description			Remarks
	* A-3222-362-A	MAIN BOARD, COMPLETE (5700RDS)			
		**********			
	* A-3273-959-A	MAIN BOARD, COMPLETE (5701RDS)			
		**********			
		< CAPACITOR >			
C1	1-124-589-11	ELECT	47uF	20%	16V
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-136-153-00	FILM	0.01uF	5%	50V
C4	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C5	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C6	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C8	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C9	1-124-229-00	ELECT	33uF	20%	10V
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C11	1-163-157-00	FILM	0.022uF	5%	50V
C12	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C13	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C14	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C15	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C16	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C17	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C18	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C19	1-124-589-11	ELECT	47uF	20%	16V
C20	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C21	1-130-480-00	MYLAR	0.0056uF	5%	50V
C22	1-126-288-11	ELECT	4.7uF	20%	16V
C23	1-124-463-00	ELECT	0.1uF	20%	50V
C24	1-110-342-11	FILM	390PF	5%	50V
C25	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C26	1-124-464-11	ELECT	0.22uF	20%	50V
C27	1-124-463-00	ELECT	0.1uF	20%	50V
C28	1-163-157-00	FILM	0.022uF	5%	50V
C29	1-163-157-00	FILM	0.022uF	5%	50V
C30	1-124-464-11	ELECT	0.22uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C31	1-126-288-11	ELECT	4.7uF	20%	16V
C32	1-136-171-00	FILM	0.033uF	5%	50V
C33	1-136-153-00	FILM	0.01uF	5%	50V
C34	1-126-161-11	ELECT	2.2uF	20%	35V
C35	1-126-161-11	ELECT	2.2uF	20%	35V
C36	1-136-165-00	FILM	0.1uF	5%	50V
C37	1-110-351-11	MYLAR	0.001uF	5%	50V
C38	1-124-252-00	ELECT	0.33uF	20%	50V
C40	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
C41	1-163-157-00	FILM	0.022uF	5%	50V
C42	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C43	1-126-301-11	ELECT	1uF	20%	50V
C44	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C45	1-126-159-11	ELECT	0.47uF	20%	50V
C46	1-126-157-11	ELECT	10uF	20%	16V
C47	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C48	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C49	1-124-229-00	ELECT	33uF	20%	10V
C50	1-124-584-00	ELECT	100uF	20%	10V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-130-469-00	MYLAR	680PF	5%	50V
C104	1-124-234-00	ELECT	22uF	20%	16V
C105	1-136-153-00	FILM	0.01uF	5%	50V
C106	1-126-301-11	ELECT	1uF	20%	50V
C107	1-126-301-11	ELECT	1uF	20%	50V
C108	1-126-301-11	ELECT	1uF	20%	50V
C109	1-124-254-00	ELECT	0.68uF	20%	50V
C110	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C111	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C112	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C113	1-136-162-00	FILM	0.056uF	5%	50V
C114	1-136-162-00	FILM	0.056uF	5%	50V
C115	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C116	1-124-464-11	ELECT	0.22uF	20%	50V
C118	1-126-157-11	ELECT	10uF	20%	16V
C119	1-126-157-11	ELECT	10uF	20%	16V
C120	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C121	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-130-469-00	MYLAR	680PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C204	1-124-234-00	ELECT	22uF	20%	16V
C205	1-136-153-00	FILM	0.01uF	5%	50V
C206	1-126-301-11	ELECT	1uF	20%	50V
C207	1-126-301-11	ELECT	1uF	20%	50V
C208	1-126-301-11	ELECT	1uF	20%	50V
C209	1-124-254-00	ELECT	0.68uF	20%	50V
C210	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C211	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C212	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C213	1-136-162-00	FILM	0.056uF	5%	50V
C214	1-136-162-00	FILM	0.056uF	5%	50V
C215	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C216	1-124-464-11	ELECT	0.22uF	20%	50V
C218	1-126-157-11	ELECT	10uF	20%	16V
C219	1-126-157-11	ELECT	10uF	20%	16V
C220	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-124-584-00	ELECT	100uF	20%	10V
C302	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C303	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C304	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C305	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C401	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C402	1-126-157-11	ELECT	10uF	20%	16V
C403	1-124-584-00	ELECT	100uF	20%	10V
C404	1-124-234-00	ELECT	22uF	20%	16V
C405	1-126-157-11	ELECT	10uF	20%	16V
C406	1-126-159-11	ELECT	0.47uF	20%	50V
C407	1-126-162-11	ELECT	3.3uF	20%	50V
C408	1-126-157-11	ELECT	10uF	20%	16V
C409	1-124-584-00	ELECT	100uF	20%	10V
C410	1-124-584-00	ELECT	100uF	20%	10V
C411	1-126-157-11	ELECT	10uF	20%	16V
C412	1-126-288-11	ELECT	4.7uF	20%	16V
C413	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C414	1-124-584-00	ELECT	100uF	20%	10V
C415	1-124-584-00	ELECT	100uF	20%	10V
C416	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C417	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C451	1-126-157-11	ELECT	10uF	20%	16V
C452	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (5701RDS)
C801	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C802	1-126-157-11	ELECT	10uF	20%	16V
C803	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C804	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C805	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C806	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C807	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C808	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C809	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C810	1-124-584-00	ELECT	100uF	20%	10V
C811	1-124-584-00	ELECT	100uF	20%	10V
C812	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (5700RDS)

Ref. No.	Part No.	Description			Remarks
C813	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C814	1-163-005-11	CERAMIC CHIP	470PF	10%	50V (5700RDS)
C901	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C902	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C903	1-126-157-11	ELECT	10uF	20%	16V (5700RDS)
C903	1-126-153-11	ELECT	22uF	20%	6.3V (5701RDS)
C904	1-124-584-00	ELECT	100uF	20%	10V (5700RDS)
C904	1-124-589-11	ELECT	47uF	20%	16V (5701RDS)
C905	1-124-234-00	ELECT	22uF	20%	16V
C906	1-126-157-11	ELECT	10uF	20%	16V (5700RDS)
C906	1-126-153-11	ELECT	22uF	20%	6.3V (5701RDS)
C907	1-124-229-00	ELECT	33uF	20%	10V
C908	1-126-288-11	ELECT	4.7uF	20%	16V
C909	1-126-301-11	ELECT	1uF	20%	50V
C910	1-126-288-11	ELECT	4.7uF	20%	16V
C912	1-164-222-11	CERAMIC CHIP	0.22uF		25V (5700RDS)

< CONNECTOR >

CNP901 *	1-691-553-11	PIN, CONNECTOR (PC BOARD) 6P
CNP902 *	1-573-391-11	PIN, CONNECTOR (PC BOARD) 9P
CNP903 *	1-573-386-11	CONNECTOR, BOARD TO BOARD 12P
CNP905 *	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
CNP908 *	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P

< DIODE >

D1	8-719-988-62	DIODE	1SS355
D2	8-719-988-62	DIODE	1SS355
D3	8-719-976-96	DIODE	DTZ4.7B
D5	8-719-988-62	DIODE	1SS355
D6	8-719-977-24	DIODE	DTZ9.1B
D7	8-719-977-24	DIODE	DTZ9.1B
D301	8-719-988-62	DIODE	1SS355
D302	8-719-988-62	DIODE	1SS355
D303	8-719-988-62	DIODE	1SS355
D304	8-719-988-62	DIODE	1SS355
D305	8-719-988-62	DIODE	1SS355
D306	8-719-988-62	DIODE	1SS355
D307	8-719-988-62	DIODE	1SS355
D308	8-719-988-62	DIODE	1SS355
D401	8-719-976-XX	DIODE	DTZ5.1B
D402	8-719-976-96	DIODE	DTZ4.7C
D451	8-719-988-62	DIODE	1SS355
D452	8-719-988-62	DIODE	1SS355
D453	8-719-988-62	DIODE	1SS355
D801	8-719-988-62	DIODE	1SS355
D901	8-719-977-24	DIODE	DTZ9.1B
D902	8-719-977-32	DIODE	DTZ11B
D903	8-719-200-82	DIODE	11ES2
D904	8-719-988-62	DIODE	1SS355
D905	8-719-988-62	DIODE	1SS355

MAIN

Ref. No.	Part No.	Description	Remarks
D906	8-719-977-24	DIODE DTZ9.1B	
D907	8-719-988-62	DIODE 1SS355	
D908	8-719-200-82	DIODE 11ES2	
D909	8-719-977-07	DIODE DTZ6.2B	
D910	8-719-977-07	DIODE DTZ6.2B	
D911	8-719-977-03	DIODE DTZ5.6B	
D912	8-719-977-16	DIODE DTZ7.5B	
D913	8-719-988-62	DIODE 1SS355	
D914	8-719-988-62	DIODE 1SS355	
D915	8-719-988-62	DIODE 1SS355	
D916	8-719-988-62	DIODE 1SS355	
D917	8-719-104-34	DIODE 1S2836	(5701RDS)
D918	8-719-988-62	DIODE 1SS355	(5700RDS)
		< IC >	
IC1	8-759-421-10	IC AN7463S	
IC2	8-759-234-77	IC TC4S66F	
IC3	8-759-933-50	IC BA335	
IC101	8-759-909-71	IC BA4558F	
IC102	8-759-909-71	IC BA4558F	
IC201	8-759-909-71	IC BA4558F	
IC202	8-759-909-71	IC BA4558F	
IC301	8-759-063-07	IC uPD17010GF-525-3B9	
IC401	8-759-634-40	IC M51524FP	
IC402	8-752-032-14	IC CXA1102M	
IC403	8-759-820-15	IC LC7537AN	
IC404	8-759-909-71	IC BA4558F	
IC801	8-759-057-53	IC TDA7330D	
IC802	8-759-063-80	IC uPD17137AGT-111	
		< COIL >	
L1	1-410-513-11	INDUCTOR 22uH	
L301	1-410-513-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q1	8-729-900-53	TRANSISTOR DTC114EK	
Q2	8-729-900-53	TRANSISTOR DTC114EK	
Q3	8-729-216-22	TRANSISTOR 2SA1162	
Q4	8-729-920-21	TRANSISTOR DTC314TKH04	
Q5	8-729-900-53	TRANSISTOR DTC114EK	
Q6	8-729-900-53	TRANSISTOR DTC114EK	
Q7	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q12	8-729-900-53	TRANSISTOR DTC114EK	
Q13	8-729-106-60	TRANSISTOR 2SB1115A	
Q14	8-729-900-53	TRANSISTOR DTC114EK	
Q15	8-729-106-60	TRANSISTOR 2SB1115A	
Q16	8-729-807-12	TRANSISTOR 2SD1802-S	
Q17	8-729-901-04	TRANSISTOR DTA114EK	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	

Ref. No.	Part No.	Description	Remarks
Q401	8-729-901-01	TRANSISTOR DTC144EK	
Q451	8-729-106-60	TRANSISTOR 2SB1115A	
Q452	8-729-900-53	TRANSISTOR DTC114EK	
Q453	8-729-807-12	TRANSISTOR 2SD1802-S	
Q454	8-729-216-22	TRANSISTOR 2SA1162	
Q455	8-729-920-21	TRANSISTOR DTC314TKH04	
Q456	8-729-901-01	TRANSISTOR DTC144EK	(5701RDS)
Q901	8-729-807-12	TRANSISTOR 2SD1802-S	
Q902	8-729-807-12	TRANSISTOR 2SD1802-S	
Q903	8-729-901-04	TRANSISTOR DTA114EK	
Q904	8-729-901-01	TRANSISTOR DTC144EK	
Q905	8-729-106-60	TRANSISTOR 2SB1115A	
Q906	8-729-216-22	TRANSISTOR 2SA1162	
Q907	8-729-900-53	TRANSISTOR DTC114EK	
Q908	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q909	8-729-216-22	TRANSISTOR 2SA1162	
Q910	8-729-901-04	TRANSISTOR DTA114EK	
Q911	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q912	8-729-216-22	TRANSISTOR 2SA1162	
Q913	8-729-106-60	TRANSISTOR 2SB1115A	
Q914	8-729-900-53	TRANSISTOR DTC114EK	
Q916	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q917	8-729-901-04	TRANSISTOR DTA114EK	
Q918	8-729-901-01	TRANSISTOR DTC144EK	
Q919	8-729-901-04	TRANSISTOR DTA114EK	
Q920	8-729-901-01	TRANSISTOR DTC144EK	
		< RESISTOR >	
R1	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R3	1-216-017-00	METAL CHIP 47 5% 1/10W	
R4	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R5	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R6	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R7	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R8	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R9	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R10	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R11	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R12	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R13	1-216-001-00	METAL CHIP 10 5% 1/10W	
R14	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R15	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R16	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R17	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R18	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R19	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R20	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R21	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R22	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R23	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R24	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R25	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R26	1-216-091-00	METAL CHIP 56K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description				Remarks
R27	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R28	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R29	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R30	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R31	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R32	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R32	1-216-037-00	METAL CHIP	330	5%	1/10W	(5701RDS)
R33	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R34	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R34	1-216-097-00	METAL CHIP	100K	5%	1/10W	(5701RDS)
R35	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R36	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R37	1-216-001-00	METAL CHIP	10	5%	1/10W	
R37	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	(5701RDS)
R38	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R38	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	(5701RDS)
R39	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R40	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R41	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R42	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R43	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R44	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R44	1-216-097-00	METAL CHIP	100K	5%	1/10W	(5701RDS)
R45	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R46	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R47	1-216-001-00	METAL CHIP	10	5%	1/10W	
R48	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R49	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R50	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R51	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R52	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R53	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R101	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R102	1-216-031-00	METAL CHIP	180	5%	1/10W	
R103	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R104	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R105	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R106	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R109	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R110	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R111	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R114	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R115	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R116	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R201	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R202	1-216-031-00	METAL CHIP	180	5%	1/10W	
R203	1-216-109-00	METAL CHIP	330K	5%	1/10W	

Ref. No.	Part No.	Description				Remarks
R204	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R205	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R206	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R208	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R209	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R210	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R211	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R213	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R214	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R215	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R216	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R218	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R301	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R302	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R303	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R304	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R306	1-216-049-00	METAL CHIP	1K	5%	1/10W	(5700RDS)
R307	1-216-049-00	METAL CHIP	1K	5%	1/10W	(5700RDS)
R308	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R309	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R310	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R311	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R312	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R313	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R314	1-216-105-00	METAL CHIP	220K	5%	1/10W	(5700RDS)
R315	1-216-015-00	METAL CHIP	39	5%	1/10W	(5700RDS)
R401	1-216-037-00	METAL CHIP	330	5%	1/10W	(5700RDS)
R402	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R403	1-216-073-00	METAL CHIP	10K	5%	1/10W	(5701RDS)
R404	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R405	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R406	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R407	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R409	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R410	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R411	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R412	1-216-025-00	METAL CHIP	100	5%	1/10W	
R413	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R414	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R415	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R417	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R451	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R452	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R453	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R454	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R455	1-216-198-00	METAL CHIP	1K	5%	1/8W	

MAIN POWER

Ref. No.	Part No.	Description				Remarks
R456	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R457	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W	(5700RDS)
R801	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R802	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R803	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R804	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R805	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R806	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R807	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R808	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R809	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R810	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R811	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R812	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R901	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R902	1-216-035-00	METAL CHIP	270	5%	1/10W	
R903	1-216-035-00	METAL CHIP	270	5%	1/10W	
R904	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R905	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R906	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R907	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R908	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R909	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R910	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R911	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R912	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R913	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R914	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R915	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R916	1-216-041-00	METAL CHIP	470	5%	1/10W	
R917	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R918	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R919	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R920	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R921	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R922	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R923	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R924	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R925	1-216-150-00	METAL GLAZE	10	5%	1/8W	
R926	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	(5700RDS)
R927	1-216-109-00	METAL CHIP	330K	5%	1/10W	(5700RDS)
R927	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	(5701RDS)
R928	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R929	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R930	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R931	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R932	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R933	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R934	1-216-111-00	METAL CHIP	390K	5%	1/10W	(5700RDS)
R935	1-216-017-00	METAL CHIP	47	5%	1/10W	
R936	1-216-025-00	METAL CHIP	100	5%	1/10W	(5700RDS)

< VARIABLE RESISTOR >

RV1	1-238-021-11	RES, ADJ, CARBON 220K	
RV2	1-238-015-11	RES, ADJ, CARBON 4.7K	
RV3	1-238-016-11	RES, ADJ, CARBON 10K	
RV101	1-238-016-11	RES, ADJ, CARBON 10K	
RV201	1-238-016-11	RES, ADJ, CARBON 10K	

< SWITCH >

S301	1-572-272-11	SWITCH, SLIDE (P.S)	(5701RDS)

< TUNER >

TU1	1-465-640-11	TUNER UNIT (FM/AM)	(5700RDS)
TU1	1-465-537-11	TUNER UNIT (FM/MW/LW)	(5701RDS)

< VIBRATOR >

X301	1-567-713-11	VIBRATOR, CRYSTAL 4.5MHz
X801	1-579-242-11	VIBRATOR, CRYSTAL 4.332MHz
X802	1-578-700-11	VIBRATOR, CRYSTAL 8MHz

****

*	A-3273-753-A	POWER BOARD, COMPLETE			
		**********			
*	3-375-365-01	BRACKET (IC)			

< CAPACITOR >

C471	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C473	1-136-165-00	FILM	0.1uF	5%	50V
C474	1-126-597-11	ELECT	2200uF	20%	16V
C475	1-126-597-11	ELECT	2200uF	20%	16V
C501	1-126-301-11	ELECT	1uF	20%	50V
C502	1-126-301-11	ELECT	1uF	20%	50V
C503	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C504	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C505	1-126-157-11	ELECT	10uF	20%	16V
C506	1-126-157-11	ELECT	10uF	20%	16V
C507	1-126-923-11	ELECT	220uF	20%	10V
C509	1-136-166-00	FILM	0.12uF	5%	50V
C510	1-136-166-00	FILM	0.12uF	5%	50V
C511	1-136-166-00	FILM	0.12uF	5%	50V
C512	1-136-166-00	FILM	0.12uF	5%	50V
C601	1-126-301-11	ELECT	1uF	20%	50V
C602	1-126-301-11	ELECT	1uF	20%	50V
C603	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C604	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C605	1-126-157-11	ELECT	10uF	20%	16V
C606	1-126-157-11	ELECT	10uF	20%	16V
C607	1-126-923-11	ELECT	220uF	20%	10V
C609	1-136-166-00	FILM	0.12uF	5%	50V
C610	1-136-166-00	FILM	0.12uF	5%	50V
C611	1-136-166-00	FILM	0.12uF	5%	50V

Ref. No.	Part No.	Description				Remarks
C612	1-136-166-00	FILM	0.12uF	5%	50V	
		< JACK >				
CNJ901	1-691-554-11	SOCKET, CONNECTOR (PC BOARD) 6P				
CNJ902	1-573-390-11	SOCKET, CONNECTOR 9P				
CNJ913	1-573-744-11	JACK, PIN 2P (LINE OUT REAR)				
		< DIODE >				
D471	8-719-989-16	DIODE 1S2472				
		< IC >				
IC501	8-759-243-27	IC TA8215H				
IC601	8-759-243-27	IC TA8215H				
		< RESISTOR >				
R471	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R501	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R502	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R503	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R504	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R505	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R506	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R507	1-216-041-00	METAL CHIP	470	5%	1/10W	
R508	1-216-041-00	METAL CHIP	470	5%	1/10W	
R509	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R510	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R511	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R512	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R513	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R603	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R604	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R605	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R606	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R607	1-216-041-00	METAL CHIP	470	5%	1/10W	
R608	1-216-041-00	METAL CHIP	470	5%	1/10W	
R609	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R610	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R611	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R612	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R613	1-216-134-00	METAL CHIP	2.2	5%	1/8W	

****

*	A-3273-757-A	SW BOARD, COMPLETE				
		**********				
		<LCD>				
LCD701	1-809-595-11	DISPLAY PANEL, LIQUID CRYSTAL				
		< CAPACITOR >				
C701	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C702	1-162-637-11	CERAMIC CHIP	0.47uF		16V	

Ref. No.	Part No.	Description				Remarks
		< JACK >				
CNJ909	* 1-691-557-11	PIN, CONNECTOR 12P				
		< DIODE >				
D701	8-719-977-00	DIODE DTZ5.1C				
D702	8-719-976-31	DIODE 1SS332				
D711	8-719-987-45	DIODE CL-155Y/PG-CD				
D712	8-719-987-45	DIODE CL-155Y/PG-CD				
D713	8-719-987-45	DIODE CL-155Y/PG-CD				
D714	8-719-987-45	DIODE CL-155Y/PG-CD				
D715	8-719-987-45	DIODE CL-155Y/PG-CD				
D716	8-719-987-45	DIODE CL-155Y/PG-CD				
D717	8-719-987-45	DIODE CL-155Y/PG-CD				
D718	8-719-987-45	DIODE CL-155Y/PG-CD				
D719	8-719-987-45	DIODE CL-155Y/PG-CD				
D720	8-719-987-45	DIODE CL-155Y/PG-CD				
D721	8-719-987-45	DIODE CL-155Y/PG-CD				
D722	8-719-987-45	DIODE CL-155Y/PG-CD				
D723	8-719-987-45	DIODE CL-155Y/PG-CD				
D724	8-719-987-45	DIODE CL-155Y/PG-CD				
D725	8-719-987-45	DIODE CL-155Y/PG-CD				
D726	8-719-987-45	DIODE CL-155Y/PG-CD				
D727	8-719-987-45	DIODE CL-155Y/PG-CD				
D728	8-719-987-45	DIODE CL-155Y/PG-CD				
D729	8-719-987-45	DIODE CL-155Y/PG-CD				
D730	8-719-987-45	DIODE CL-155Y/PG-CD				
D731	8-719-987-45	DIODE CL-155Y/PG-CD				
		< IC >				
IC701	8-759-246-16	IC TC9240F				
		< PILOT LAMP >				
PL701	1-518-677-21	LAMP, PILOT				
PL702	1-518-677-21	LAMP, PILOT				
PL703	1-518-678-21	LAMP, PILOT				
PL704	1-518-678-21	LAMP, PILOT				
		< TRANSISTOR >				
Q701	8-729-904-66	TRANSISTOR DTD113EK				
Q702	8-729-904-66	TRANSISTOR DTD113EK				
Q703	8-729-904-66	TRANSISTOR DTD113EK				
Q704	8-729-904-66	TRANSISTOR DTD113EK				
		< RESISTOR >				
R701	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R702	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R703	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R704	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R705	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R706	1-216-045-00	METAL CHIP	680	5%	1/10W	
R707	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R708	1-216-690-11	METAL CHIP	43K	0.5%	1/10W	
R709	1-216-683-11	METAL CHIP	22K	0.5%	1/10W	
R710	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	

SW RELAY

Ref. No.	Part No.	Description				Remarks
R711	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	
R712	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W	
R713	1-216-666-11	METAL CHIP	4.3K	0.5%	1/10W	
R714	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	
R715	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W	
R716	1-216-666-11	METAL CHIP	4.3K	0.5%	1/10W	
R717	1-216-690-11	METAL CHIP	43K	0.5%	1/10W	
R718	1-216-683-11	METAL CHIP	22K	0.5%	1/10W	
R719	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	
R720	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	
R721	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W	
R722	1-216-666-11	METAL CHIP	4.3K	0.5%	1/10W	
R723	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R724	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R725	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R726	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R727	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R728	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R729	1-216-180-00	METAL GLAZE	180	5%	1/8W	
R730	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R731	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R732	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R733	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R734	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R735	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R736	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R737	1-216-049-00	METAL CHIP	1K	5%	1/10W	
		< SWITCH >				
S701	1-572-704-21	SWITCH, KEY BOARD (DSPL)				
S702	1-572-704-21	SWITCH, KEY BOARD (BTM)				
S703	1-572-704-21	SWITCH, KEY BOARD (1)				
S704	1-572-704-21	SWITCH, KEY BOARD (2)				
S705	1-572-704-21	SWITCH, KEY BOARD (3)				
S706	1-572-704-21	SWITCH, KEY BOARD (4)				
S707	1-572-704-21	SWITCH, KEY BOARD (5)				
S708	1-572-704-21	SWITCH, KEY BOARD (6)				
S709	1-572-704-21	SWITCH, KEY BOARD (-)				
S710	1-572-704-21	SWITCH, KEY BOARD (+)				
S711	1-572-704-21	SWITCH, KEY BOARD (MANU -)				
S712	1-692-037-11	SWITCH, KEY BOARD (MANU +)				
S713	1-692-037-11	SWITCH, KEY BOARD (OFF)				
S714	1-692-037-11	SWITCH, KEY BOARD (FM/AM)				
S715	1-692-037-11	SWITCH, KEY BOARD (AF/TA)				
S716	1-692-037-11	SWITCH, KEY BOARD (LOUD SENS)				
S717	1-572-704-21	SWITCH, KEY BOARD (SEL)				
S718	1-572-704-21	SWITCH, KEY BOARD (SEEK -)				
S719	1-572-704-21	SWITCH, KEY BOARD (SEEK +)				

****

Ref. No.	Part No.	Description	Remarks
*	1-642-351-11	RELAY BOARD	
		**********	
		< JACK >	
CNJ903	* 1-691-558-11	SOCKET, CONNECTOR 12P	
		< CONNECTOR >	
CNP909	* 1-573-387-11	CONNECTOR, BOARD TO BOARD 12P	

****

MISCELLANEOUS
****

55	1-690-870-11	CORD (WITH CONNECTOR)	
150	1-454-464-12	SOLENOID, PLUNGER	
F901	1-532-678-11	FUSE, GLASS TUBE 12A	
F902	1-532-414-11	FUSE, GLASS TUBE 1A	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE	
S903	1-692-065-11	SWITCH, LEAF	
S904	1-554-790-21	SWITCH, POWER	

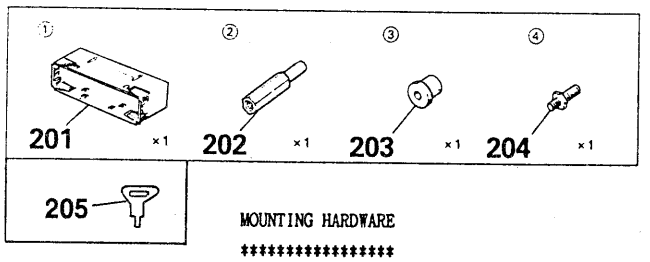
****

ACCESSORIES & PACKING MATERIALS
****

	3-323-209-01	BOLT (4-5), STUD	
	3-323-210-01	ADJUSTOR, STUD BOLT	
	3-323-219-01	FRAME, FITTING (AEP, UK)	
	3-336-617-01	BAG, PROTECTION	
	3-349-410-01	BUSHING	
*	3-355-207-01	CARDBOARD (E)	
	3-377-605-01	CASE	
*	3-377-628-01	LABEL, MODEL NUMBER	
*	3-377-974-01	INDIVIDUAL CARTON	
	3-378-800-01	CUSHION (UPPER) (Germany)	
	3-378-801-01	CUSHION (LOWER) (Germany)	
	3-379-087-01	PANEL (DISPLAY) (Germany)	
	3-379-363-01	KEY	
	3-754-856-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH)	
	3-754-856-41	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (AEP, UK)	
	3-754-857-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH)	
	3-754-857-41	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (AEP, UK)	
	3-755-203-11	INSTRUCTION	
	X-3364-955-1	FRAME ASSY, FITTING (5701RDS)	
	X-3364-977-1	CASE ASSY (5701RDS)	

****

MOUNTING HARDWARE



MOUNTING HARDWARE
##################

Ref. No.	Part No.	Description	Remarks
201	X-3364-955-1	FRAME, ASSY, FITTING	
202	3-323-210-01	ADJUSTOR, STUD BOLT	
203	3-349-410-01	BUSHING	
204	3-323-209-01	BOLT (4-5) STUD	
205	3-379-363-01	KEY	

HARDWARE LIST

##########################

Ref. No.	Part No.	Description	Remarks
#1	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	
#2	7-621-772-10	SCREW +B 2X4	
#3	7-621-255-25	SCREW +P 2X4	
#4	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
#5	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT	
#6	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#7	7-624-102-04	STOP RING 1.5, TYPE -E	
#8	7-624-104-04	STOP RING 2.0, TYPE -E	
#9	7-624-118-01	RING, RETAINING E-2.5	
#10	7-621-773-95	SCREW +PTT 2.6X6 (S)	
#11	7-621-775-08	SCREW +P 2.6X3	
#12	7-621-255-15	SCREW +P 2X3	
#13	7-685-645-79	SCREW +P 3X6 TYPE2 SLIT	
#14	7-627-553-88	SCREW, PRECISION +P 2X7	
#16	7-621-255-40	SCREW +P 2X6	

English
92C1649-1
Printed in Japan
©1992.3
Published by Customer Relations and Service Group

9-957-060-11

Sony Corporation
Mobile Electronics Group

XR-5700RDS/5701RDS

SONY
SERVICE MANUAL

AEP Model
XR-5700RDS
XR-5701RDS

UK Model
XR-5701RDS

Germany Model
XR-5700RDS

CORRECTION-1

Correct your service manual as shown below.

☛: **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
60		3-379-087-01	PANEL (DISPLAY) (Germany)	———	deleted ———

9-957-060-91

Sony Corporation
Mobile Electronics Group

English
93C1645-1
Printed in Japan
© 1993.3
Published by Audio Corporate Planning Group

XR-5700RDS/5701RDS

SONY

SERVICE MANUAL

AEP Model
XR-5700RDS
XR-5701RDS

UK Model
XR-5701RDS

Germany Model
XR-5700RDS

CORRECTION-2

Correct your service manual as shown below.

☛: **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
60	IC802	8-759-063-80	uPD17137AGT-111	8-759-064-80 ☛	uPD17135AGT-111

9-957-060-92

Sony Corporation
Mobile Electronics Group

English
93F1646-1
Printed in Japan
© 1993.6
Published by Audio Sector Quality Assurance Dept.

XR-5700RDS/5701RDS

SONY

SERVICE MANUAL

AEP Model
XR-5700RDS
XR-5701RDS

UK Model
XR-5701RDS

Germany Model
XR-5700RDS

CORRECTION-3

Correct your service manual as shown below.

☛: **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
50	21	3-375-348-01	PANEL, FRONT BACK	3-377-616-01 ☛	PANEL, FRONT BACK
53	S903	1-692-065-11	SWITCH, LEAF	1-554-790-21 ☛	SWITCH, POWER
60	S904	1-554-790-21	SWITCH, POWER	1-692-065-11 ☛	SWITCH, LEAF

9-957-060-93

Sony Corporation
Mobile Electronics Group

English
93G1646-1
Printed in Japan
© 1993.7
Published by Audio Sector Quality Assurance Dept.